SCIENCE CAREERS

143rd YEAR 1991 NO. EE03

AAAS ANNOUNCES EXPANSION OF EMPLOYMENT EXCHANGE '92

During 1992, the Employment Exchange will be held at three annual AAAS-sponsored meetings:

AAAS Annual Meeting
February 7-10, at the Hyatt Regency Hotel, Chicago, Illinois

AAAS Pacific Division Annual Meeting
June 21-24, at the University of California, Santa Barbara campus

Science Innovation '92
July 21-24, at the Moscone Center, San Francisco, California

EMPLOYER BENEFITS

▲ Hundreds of top-notch candidates. Access to all résumés cross-referenced by discipline.
▲ On-site interview facilities and scheduling services at no extra charge.
▲ Unlimited position postings.
▲ Special rates for AAAS Meetings exhibitors and nonprofit organizations.
▲ Free admittance to Plenary Lectures and Exhibition Hall without meeting registration fee.

CANDIDATE BENEFITS

▲ Free enrollment for AAAS members who apply by the appropriate advance enrollment date (see below). Low $10 fee for nonmembers and on-site registrants.
▲ Hundreds of current position openings in a variety of disciplines and experience levels.
▲ On-site interview facilities, including on-the-spot interviews.
▲ Enrollment includes availability of your forms at all AAAS-sponsored annual meetings in 1992.
▲ Access to full descriptions of all available positions.

EMPLOYER ENROLLMENT INSTRUCTIONS

▲ Complete the Employer enrollment form including which days you will be interviewing.
▲ Prepare your Position Available Description(s) on the form provided or on an 8"x11" page (using same format). Be sure to complete all sections.
▲ Indicate the names and phone numbers of the recruiters who will be participating at the Exchange.
▲ Submit appropriate payment (check or original purchase order) with completed enrollment form and position descriptions to the address listed below.
▲ NOTE: If you wish to attend sessions, seminars, or symposia, you must register for the meeting(s).

CANDIDATE ENROLLMENT INSTRUCTIONS

▲ Candidate Data forms must be complete and typed. Many employers will not consider incomplete or handwritten forms.
▲ Candidates may submit supplemental copies of a detailed C.V. with the completed Candidate Data form only.
▲ All candidates using the on-site facilities at the meeting(s) must register for meeting attendance as well as enrolling with the Employment Exchange.
▲ The AAAS Employment Exchange is a free service to AAAS members enrolled by the advance enrollment deadline dates: January 6, 1992 for AAAS Annual Meeting, Chicago; and June 5, 1992 for AAAS Pacific Division Annual Meeting, Santa Barbara, and Science Innovation '92, San Francisco.

Please forward completed forms and payments to: Jacquelyn Roberts, Manager, AAAS Employment Exchange, 1333 H Street, NW, Suite 1163, Washington, DC 20005 USA. Phone: 202/326-5737
DNA SEQUENCING

Sequencing strategies custom-tailored for your projects and budget.

- Manual sequencing (Sanger Method)
- Automated (ABI 373A)
- Rapid turn-around time
- Sequences guaranteed
- Complete confidentiality assured

Services to support your Research Projects:
- Sub-Cloning
- In-vitro Mutagenesis
- Phage & Plasmid DNA Production
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The only way to tell Scientists you’ve written a book is to reach ’em where they read.

You’ve written a book. You’re proud of it. And you’d like your peers to know about it.

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Insist that your publisher advertise it in the world’s most widely read scientific journal: SCIENCE.

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If your book was worth writing, it’s worth promoting. And selling. And there’s no better way to do both than through the pages of the pre-eminent publication in the field: SCIENCE.
POSITIONS OPEN

CONSERVATION BIOLOGIST

The Department of Biology at the University of Northern Iowa is seeking individuals with the Ph.D. degree for a tenure-track ASSISTANT PROFESSOR position in conservation biology. The applicant will have a strong background in natural history, interpretation, and will teach a course in fishery specialty and may also teach a course in our general education program. He/she will develop a research program which will involve both undergraduate (M.A.) and undergraduate (B.A. and B.S.) students. The department expects excellence in both teaching and research. Salary is competitive and commensurate with experience and qualifications. Teaching and/or postdoctoral research is preferred. Applicants should submit curriculum vitae, transcripts, sample teaching, and three letters of recommendation. For full consideration, all application materials should be postmarked no later than 6 March 1992. Send application and/or letters of inquiry to:

Dr. George R. Hoffman
Professor and Chair Search Committee
Department of Biology
University of Northern Iowa
Cedar Falls, IA 50614-0431
FAX: 319-273-2893

The University of Northern Iowa is an Equal Opportunity Educator and Employer with a comprehensive plan for Affirmative Action. Women, minority persons, Vietnam era veterans and disabled persons are encouraged to apply.

SCIENCE EDUCATION. ASSISTANT PROFESSOR (target-level) in the Department of Biology. Position includes a quarter-time appointment in the Department of Secondary Education. Tenure track starting Fall 1992. Ph.D. required. University/college teaching and/or postdoctoral experience desirable. Teaching certificate in secondary science and experience teaching in the secondary level is expected. Ability to work with teachers in a field setting is essential. Teaching will include techniques, classroom science, and computer science. Biology courses for elementary education majors, field supervision of student teachers, and other departmental courses. Active research program is required. Applicants should send letter of interest, curriculum vitae, and a brief statement of teaching philosophy and research interests by 1 March 1992 to: Dr. Carl Train, Department of Biology, Southeast Missouri State University, Cape Girardeau, MO 63701. An Equal Opportunity/Affirmative Action Employer, M/F.

ANESTHESIOLOGIST

Department of Anesthesiology at the SUNY Health Science Center at New York, is recruiting faculty at the INSTRUCTOR, ASSISTANT and ASSOCIATE PROFESSOR levels. Qualified individuals with a strong academic commitment in the types of research, clinical activities, and teaching are solicited. SUNY Health Science Center is a tertiary care center and provides clinical services also to the Syracuse Veterans Administration Hospital. Rank and salary are commensurate with experience. Must be Board-certified or Board-eligible and possess a New York State medical license. Please send letter, curriculum vitae, names, addresses and phone numbers of three references to: Enrico M. Camporesi, M.D., Professor and Chairman, Department of Anesthesiology, SUNY Health Science Center, Syracuse, NY 13210. The State University of New York Health Science Center is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY. The Department of Biology, University of Central Arkansas (UCA), invites applications for a tenure-track entry level (Ph.D.) ASSISTANT PROFESSOR position starting 1992. The individual will teach and coordinate a multidiscipline course of general biology for non-science majors, and conduct research in a general biology area (aquatic biology, mycology, or molecular biology preferred). Submit curriculum vitae, copies of transcripts, a brief description of teaching philosophy and research career goals, and three letters of recommendation to: Dr. Edmond E. Griffin, Chairman, Department of Biology, University of Central Arkansas, Conway, AR 72032, telephone: 501-321-3140, FAX 501-321-5611. Equal Opportunity Employer.

BIOLOGY. The Department of Biology at the University of Nebraska-Lincoln invites applications for a tenure-track position at the assistant professor level for the fall 1992 term. The University of Nebraska-Lincoln (population of 25,500) is a land-grant institution that offers undergraduate and graduate degree programs in all fields. Rank and salary will be commensurate with the qualifications of the successful applicant. Applicants should have an active research program and an interest in teaching at both the undergraduate and graduate levels. The successful applicant will be expected to teach two courses per year - at least one in the biology major curriculum. Serious consideration will be given to those whose research involves students in the laboratory. Applications should include a letter of intent, curriculum vitae, a statement of research and teaching interests, and three letters of recommendation. The letter of intent should describe research plans. Applications are due May 15, 1992. The University of Nebraska-Lincoln is an Equal Opportunity Employer.

MAMMALIAN DEVELOPMENTAL GENETICIST ASSISTANT, ASSOCIATE OR FULL PROFESSOR

Candidates are being sought with special interest in developing mouse models for human diseases, focusing on homologous mouse embryonic stem cells and transgenic animal preparation. The faculty member will be housed in a new, large, modern facility. Applicants should submit a letter of inquiry and curriculum vitae, including names of three references to: J. M. Reus, Chair, Department of Cell Biology and Molecular Genetics, The University of Iowa, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL BIOLOGIST, Ph.D., ASSISTANT PROFESSOR, tenure track, September 1992. Contingent on state funding. Preference given to candidates with active, environmentally oriented research programs in either microbiology or vertebrate physiology. Teaching responsibilities: undergraduate courses, and participation in the graduate program. Send curriculum vitae, transcripts, and three letters of reference to: William Mechling, Biology Department, Towson State University, Towson, MD 21204. Applications by 15 February 1992. Equal Opportunity Employer. Women and minorities are encouraged to apply.

BIOCHEMISTRY/MOLECULAR BIOLOGY MEHARRY MEDICAL COLLEGE

Faculty positions will be available in 1992/93 in the Department of Biochemistry, at the level of ASSISTANT OR ASSOCIATE PROFESSOR. Applicants must be Ph.D. or M.D., or both, and have postdoctoral experience. Joint appointments in clinical departments are possible. Please send curriculum vitae, names, addresses and a statement of research interests to: Dean, School of Medicine, Meharry Medical College, Nashville, TN 37208. Meharry Medical College is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—PHARMACOLOGY

The Division of Pharmacy Sciences invites applications for a tenure-track position. Responsibilities include undergraduate teaching and establishment of an active, funded research program. Preference is given to individuals with a Ph.D. in pharmacology and an undergraduate pharmacy degree are desirable. Screening of applications will begin on 15 February 1992. Applicants should submit curriculum vitae and names of three references to: R. J. Morrow, Ph.D., College of Pharmacy and Health Sciences, Drake University, Des Moines, IA 50311. Equal Opportunity/Affirmative Action Employer. Applications from qualified minorities and women especially encouraged.
PHARMACEUTICAL DISCOVERY

Corvas International, Inc., a biopharmaceutical company with research centers in La Jolla, California, and Ghent, Belgium, is expanding to address product opportunities in the thrombosis and vascular disease fields. Our primary focus is the development of small molecule pharmaceutical products targeted at enzymes and receptors involved in the processes of thrombosis and inflammation. Our research team is rapidly expanding, creating the following exciting career opportunities in our Cardiovascular Pharmacology group at our San Diego headquarters.

Cardiovascular Pharmacologists

We are seeking a highly motivated senior-level Scientist to design and conduct experiments involved in the evaluation of anti-thrombotic and anti-inflammation drug candidates in appropriate animal model systems. A successful candidate should have a Ph.D. or equivalent degree and at least 2 years of direct hands-on experience in the area of cardiovascular pharmacology, preferably in the areas of thrombosis and inflammation. Appropriate interpersonal skills commensurate with leading an interdisciplinary group are required. Industrial experience is highly desirable but not required.

We are also looking for associate-level Scientists who will participate in the *in vivo* evaluation of potential drug candidates. Successful candidates must have a BS or MS degree and previous experience in conducting *in vivo* experiments in the area of cardiovascular pharmacology and be willing to work as part of an interdisciplinary team.

Corvas offers attractive compensation packages, equity participation, and a highly interactive and stimulating scientific environment. For consideration, please send a letter of interest and CV to: Corvas International, Inc., Human Resources, 3030 Science Park Road, San Diego, CA 92121. EOE.

Molecular Biosystems, Inc., an innovator in the development and manufacturing of diagnostic and imaging products, is seeking qualified candidates for the following positions:

- **Preclinical Research Scientist**-Resp. for initiation, design & mgmt of scientific preclinical research & product development projects. PhD in physiology, pharmacology or toxicology w/a min. of 5 yrs. exper. in research pharmaceutical environment.

- **Research Scientist**-PhD Biochemist to work on ultrasound imaging products. Creative, interdisciplinary project. Requires protein characterization skills, peptide & amino acid analysis, as well as familiarity w/ carbohydrate & lipid chemistry.

- **Research Associate II**-BS/MS in a scientific discipline or equivalent w/ 2-5 yrs. inorganic/solid state chemistry lab experience. Responsible for R&D related to design of inorganic complexes for medical drug development.

- **Research Associate II**-Two positions available req. BS/MS in Biology or Chemistry w/ 3 yrs. lab exp. & familiarity w/ techniques in chromatography, electrophoresis & spectrophotometry.

We offer competitive salaries, a comprehensive benefits package and a pleasant working environment. Qualified candidates should submit resumes with salary history to:

Molecular Biosystems, Inc.
Human Resources Department
10030 Barnes Canyon Road
San Diego, CA 92121

An Equal Opportunity Employer

Chairperson
Department of Physiology and Biophysics

The University of Miami School of Medicine is seeking a new Chairperson for the Department of Physiology and Biophysics. This opportunity has become available with the decision of Professor Werner Loewenstein, who has guided the Department to a position of international prominence, to pursue his research interests full-time.

On behalf of the School and the Department's faculty, we seek a distinguished scientist who will build on the School's existing strength in Neuroscience and Membrane Biophysics. Dynamic leadership of the Department requires an individual having not only an outstanding record of high quality scientific research, but also a strong commitment to graduate and medical education. The new Chairperson will have the opportunity to recruit faculty dedicated to the highest standards in research and teaching, while fostering collaborative links with others in the University.

Interested applicants should send a curriculum vitae to:

Dr. Bernard Roos
Chair, Physiology Search Committee
Dept. of Medicine (D-503)
PO Box 016960
University of Miami School of Medicine
Miami, FL, 33101

The University of Miami is an equal opportunity employer.

Position in

MOLECULAR FUNGAL-PLANT INTERACTIONS

The Ohio State Biotechnology Center invites applications for a tenure-track faculty position at the Assistant or Associate Professor level. We are particularly interested in candidates with potential to build a dynamic, innovative research program in the molecular biology of fungal interactions with plants. The successful applicant will hold an academic appointment in an appropriate department in the College of Biological Sciences or Agriculture, and join a campus-wide community of nearly forty scientists studying the molecular biology of plants, microbes and their interactions. Competitive salary, newly renovated laboratory space, and generous start-up funds are offered. Modern plant propagation facilities are available and a state-of-the-art transgenic plant facility is being built.

Screening will begin by February 15, 1992. Send a curriculum vitae, a statement of planned research, and have three letters of reference sent to: Dr. David M. Bisaro, Fungal-Plant Search, The Ohio State Biotechnology Center, Rightmire Hall, 1060 Carmack Road, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.
Applications are invited for **teaching/research appointments** in one of the following departments:

**ANAESTHESIA—Research Fellow**

Candidates should have at least a MSc degree. Preference will be given to those with experience in High Performance Liquid Chromatography.

**MEDICINE—Research Fellow in the area of Respiratory Medicine**

The following are research projects that the Department is undertaking:

1. The role of mediators and airway inflammation in asthma
2. The role of superoxide anion in the sputum in various lung diseases
3. The role of eosinophils in animal models of airway inflammation
4. The study of the molecular basis of asthma in different ethnic groups
5. Diaphragmatic function tests in patients with lung diseases
6. Normal lung function values in the population
7. Bronchial hyperreactivity and cough

Candidates should have a higher degree. Preference will be given to those with a relevant degree in Biological Sciences and/or related areas.

**ORTHOPAEDIC SURGERY—Lecturer/Fellow/Senior Fellow**

Candidates should possess a registrable medical degree together with relevant professional/higher academic qualifications. For short-term appointments as **Fellow/Senior Fellow**, the contract will be for one year in the first instance, with the possibility of further extension. Appointees will carry out research in one of the following areas and be expected to participate actively in the teaching of undergraduates and clinical activities of the Department: **Spine, Paediatric Orthopaedics, Orthopaedic Research and Adult Reconstructive Surgery**.

Laboratory facilities are available for animal surgery, motion analysis, biomechanics, histology and biochemistry related to orthopaedic research.

**Research Fellow in Reconstructive Microsurgery**

The appointee is expected to be involved in current research activities as an investigator and to develop new areas as a principal investigator. Other responsibilities include directing and supervising research projects, management of the microvascular and cadaveric laboratories, supervision and training of junior research staff. There is extensive interaction with the research community at NUS and other hospitals with the possibility of interdisciplinary collaboration.

The contract will be for up to three years. Candidates should possess a MD or PhD in medical science with strong research experience in the field of microsurgery or reconstructive surgery and the related basic sciences.

**Terms of Appointment**

The commencing salary will depend upon the candidate’s qualifications, experience and the appointment offered. Gross annual emoluments range as follows:

- Lecturer/Fellow: S$53,160–64,200
- Senior Fellow: S$58,680–100,310
- Research Fellow: S$50,400–64,200

(US$1.00 = S$1.66 approximately)

Benefits under the Professional Fee Scheme with respect to the care of private patients will apply to those on teaching appointments.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity; a settling-in allowance of S$1,000 or S$2,000; subsidised housing at nominal rentals ranging from S$100 to S$216 p.m., education allowance for up to three children subject to a maximum of S$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

All academic staff have access to the following computer and telecommunication resources: an individual microcomputer (an IBM AT-compatible or Apple Macintosh); an IBM mainframe computer with 16 MIPS of computing power; an NEC SX supercomputer with 650 MFLOPS of computing power; departmental laser printers; a wide spectrum of mainframe and microcomputer software; voice-mail. A campus-wide network, which is based on the high speed optical fibre based FDDI technology, links up all the academic staff and student microcomputers, UNIX workstations and provides access to the mainframe computer, the supercomputer, UNIX hosts, the on-line library catalogue, Internet and BITNET.

Application forms and further information on terms and conditions of service, including the Professional Fee Scheme, may be obtained from:

**The Director**
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511

Enquiries may also be sent through BITNET to: PERVLI@NUS3090, or through Telefax: (65) 7783948
ASSISTANT/ASSOCIATE PROFESSOR

expert in molecular and cellular biology. Applicant should have independent program and cooperate with colleagues within and outside the department. Send curriculum vitae to: Dr. Dale E. Bockman, Department of Cellular Biology and Anatomy, Medical College of Georgia, Augusta, GA 30912-2000. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

ECOSYSTEM ECOLOGY

The Division of Biology at Kansas State University (KSU) has a tenure-track position available at the assistant professor level effective August 1992. Applications are invited from terrestrial ecosystem ecologists with postdoctoral experience. The Division has a strong program in ecological research with excellent facilities available, including the 3487-hectare Konza Prairie Research Natural Area, a member of the Long-Term Ecological Research Network. The successful candidate will be expected to establish a vigorous and creative scholarly program complementing the Konza Prairie research program in ecology and plant science. Send curriculum vitae, a statement of research plans, and having three letters of reference sent to:

Terry C. Johnson, Director
Division of Biology, Ackert Hall
Kansas State University
Manhattan, KS 66506

KSU is an Equal Opportunity/Affirmative Action Employer.

PLANT SCIENTISTS

The Division of Biological Sciences at The University of Montana invites applications for two tenure-track positions at the ASSISTANT PROFESSOR level to start in August 1992. For both positions, productive research program in ecology, plant science, and a graduate course in area of specialty. PLANT ECOLOGIST: Teaching responsibilities include undergraduate courses in plant biology and introductory plant sciences and a graduate course in area of specialty. Send curriculum vitae, statement of professional goals and three letters of reference to: Dr. Phillip Sheath, Search Committee, Division of Biological Sciences, University of Montana, Missoula, MT 59812. Review of candidates begins 24 January 1992 and will continue until positions are filled. Affirmative Action/Equal Opportunity Employer.

BIOLOGY/VERTEBRATE ZOOLOGY

BALL STATE UNIVERSITY

MUNCIE, INDIANA

Applications are invited for a tenure-track vertebrate zoology position at the ASSISTANT PROFESSOR level in the Department of Biology available fall 1992. Candidates are expected to have a commitment to excellence in teaching, to be competent in current approaches used in the study of vertebrates, and to establish an active research program. Responsibilities: Teach courses in zoology, animal behavior, comparative anatomy and introductory biology; conduct research in specialty area and promote student involvement in research; and be an active member of the academic community. Examples of research specialties include (but are not limited to): comparative physiology, physiological ecology, population/evolutionary genetics, and population genetics. Minimum qualifications: Earned doctorate in a biological science. Preferred qualifications: Demonstrated teaching ability, and publications and/or evidence of other scholarly activity. Submit curriculum vitae, letter of application, and three letters of recommendation to: Dr. Thomas McComish, Search and Selection Committee, Department of Biology, Room 215, Ball State University, Muncie IN 47306. Review of applications will begin 29 January 1992 and continue until the position is filled. Ball State University is an Equal Opportunity/Affirmative Action Employer and is strongly and actively committed to diversity within its community.

ASSISTANT/ASSOCIATE PROFESSORS

NEUROSCIENCES

CASE WESTERN RESERVE UNIVERSITY

The Department of Neurosciences at Case Western Reserve University School of Medicine has two tenure-track openings for junior faculty to be appointed at the assistant or associate professor level. Candidates at the entry level should have at least 2 years of postdoctoral research experience and be ready to start their own independent research program. Duties primarily involve lecturing on neuroscience to graduate and medical students. One position is for an individual using modern biophysical techniques to study central and/or peripheral nervous systems. The other could involve a person in an area of neuroscience. The department includes 10 primary faculty and will expand over the next several years to 15. Also, more than 15 neuroscientists from other departments play an active role in research and teaching. Interested candidates should submit their curriculum vitae and a statement of research plans by 21 February 1992 and should arrange for four letters of reference to be sent to: Dr. Story Landis, Chairman, Department of Neurosciences, Case Western Reserve University, 1900 Euclid Avenue, Cleveland, OH 44106-4975. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

position open for individual with radiobiology background to join multidisciplinary research group with central goal to investigate basic properties of solid tumors and develop collabora- tive clinical treatment strategies. Applicants should pos- sessed background in both surgery (radiation) and experience in cell biology, molecular biology, or radiation biology. Position available as of August 1992. Submit curriculum vitae, a statement of research interests and three references to: Dr. Philip Rubin, Chairman of Radiation Oncology, Box 674, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642.

ZOOLOGIST

UNIVERSITY OF GUAM (UOG)

The University of Guam is recruiting at the ASSISTANT/ASSOCIATE PROFESSOR level for a full-time (9 months) Ph.D. biologist, preferably with postdoctoral experience. Expertise in population and/or evolutionary genetics is preferred. Teaching duties will include undergraduate courses in population genetics and molecular biology. An active research program in support of this position (30% time) is expected. The opening is flexible and can be a 1-2, or 3-year tenure or non-tenure-track position. Send curriculum vitae, a statement of teaching and research interests, reprints, and three letters of reference to: Ernest A. Matson, Biology Search Committee, c/o Personnel Services Division, UOG Station, Mangilao, Guam, 96923. Telephone: 687-8311. Fax: 671-734-3118. For information about Guam and UOG, contact: Dr. John Rider at 1-800-821-9233 (FAX: 206-380-1352; E-Mail jrider@cup.portal.com). UOG is an Equal Opportunity/Affirmative Action Employer.

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PLANT ECOLOGIST

Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level in the Department of Biology at Memorial University effective September 1992. We are seeking a higher plant ecologist with interest in terrestrial or wetland areas within a boreal environment. The successful candidate will be expected to develop a strong research program, seek and secure external funding, supervise graduate students and teach courses at the undergraduate and graduate levels. Candidates must have a Ph.D. in plant ecology or a closely related discipline. Application materials should include: a curriculum vitae, letter of reference, and names and addresses of three references, and should be sent to: Dr. R. Sheath, Head, Department of Biology, Memorial University of Newfoundland, St. John's, Newfoundland. Applications, for full consideration, should be postmarked by 1 March 1992. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. Memorial University is committed to Employment Equity.

ASSISTANT STAFF POSITION

SECTION OF DIGESTIVE DISEASE RESEARCH

THE CLEVELAND CLINIC FOUNDATION

Two new positions at the Assistant Staff (Professor) level are available in the Section of Digestive Disease Research at the Cleveland Clinic Foundation. Positions are targeted for expansion of basic investigation in inflammatory bowel disease. The candidates must have a Ph.D. or M.D. degree and potential for an independent career in inflammatory bowel disease. Their area of expertise can include molecular biology, cell biology, immunology, biochemistry, etc., but they must be interested in the gastrointestinal tract as a site of inflammation as a mechanism of disease. Package includes laboratory space, equipment, supplies, and salary for the staff and financial allowances, and it is dependent on qualifications. Interested individuals should send curriculum vitae and correspondence to:

Dr. Claudio Fiocchi
Section of Digestive Disease Research
Cleveland Clinic Foundation
9500 Euclid Avenue, Cleveland, OH 44195

The Cleveland Clinic Foundation is an equal opportunity employer.

ASSISTANT/ASSOCIATE PROFESSOR

DEPARTMENT OF ANATOMY

DAHLROUS UNIVERSITY

HALIFAX, NOVA SCOTIA

The Department of Anatomy at Dalhousie University is seeking applications for two tenure-track positions to begin 1 July 1992. Candidates will have a Ph.D. and have undertaken postdoctoral training. The ability to teach histology, gross anatomy or neuroanatomy is desirable. The candidates will be expected to undertake original independent research and contribute to graduate programs. Current research activities within the department include neurobiology, functional morphology and cell biology. Excellent facilities and equipment will be available. Applications should include curriculum vitae, representative reprints, a summary of present research activities, an outline of future research directions and the names of three referees. Application reviews will begin 31 January 1992. Applications are encouraged from all qualified candidates. Dalhousie University is an Employment Equity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE/ FULL PROFESSOR

FULL PROFESSOR

DEPARTMENT OF PHYSIOLOGY/BIOBIOGRAPHY

The Department of Physiology and Biophysics invites applications for a full-time, or tenure track position at the assistant, associate or full professor level with preference for candidates who will develop or have already established an independently funded research program in cardiovascular physiology. We are particularly interested in research involving cellular and molecular aspects of the entire cardiovascular system including neuroendocrine and metabolic regulation. The successful candidate will join a Department which includes faculty from the School of Medicine and the College of Science and Mathematics, with strengths in cellular, molecular and membrane physiology. The appointee will participate, as part of a team effort, in the teaching of pulmonary and cardiovascular physiology to medical and graduate students. Applicants must have a Ph.D. and/or M.D. and at least 2 years of postdoctoral experience. Starting date is planned for 1 July 1992. All applications received by 1 March 1992 will be considered. The position is open to individuals with preference for the position is filled. Send curriculum vitae, list of publications, statement of research interests, and names of three references to: Dr. Peter K. Lauf, Professor and Chair, Wright State University, Dayton, OH 45435. Wright State is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.
RESEARCH OPPORTUNITIES IN BIOTECHNOLOGY

The Department of Biotechnology is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. Successful candidates will be expected to interact extensively with ongoing programs in transformation, gene expression, gene isolation or RFLP programs.

PROJECT LEADER, TISSUE-SPECIFIC EXPRESSION (JOB #1300) - This position will be part of a group working on tissue-specific expression in maize for application to crop improvement traits. The successful candidate will have extensive experience in tissue-specific expression in plants, especially the isolation and characterization of regulatory regions of plant genes. EDUCATION/EXPERIENCE: Ph.D. or equivalent work experience in plant molecular biology or related field plus at least 2-3 years relevant experience are required. CONTACT PERSON: AMY LaMOTTE

PROJECT LEADER, Bt EXPRESSION (JOB #1325) - This position will be responsible for genetic engineering of genes from Bacillus thuringiensis (Bt) for insect resistance in plants. The successful candidate will have extensive experience in modifying Bt genes for plant expression and broad knowledge of work in the field of Bt genes. EDUCATION/EXPERIENCE: Ph.D. or equivalent work experience in molecular biology or related field plus at least 2-3 years relevant experience are required. CONTACT PERSON: AMY LaMOTTE

PROJECT LEADER, SPECIALTY CARBOHYDRATES (JOB #1372) - The successful candidate will initiate an independent research program in the area of starch biosynthesis and/or modification. The ultimate research goal will be to enhance current, and develop new, value added products. Applicants should have experience and a good working knowledge in starch enzymology. EDUCATION/EXPERIENCE: Ph.D. or equivalent in biochemistry or a related field plus 3 or more years of relevant research experience are required. More experienced individuals are encouraged to apply. CONTACT PERSON: LISA HALL

RESEARCH ASSOCIATE, CORN TRANSFORMATION BIOLOGY (JOB #2381) - The successful candidate for this position will be part of a team of people using the best available method (such as microprojectile bombardment) for the genetic transformation of maize. This individual will use various herbicide or antibiotic selection systems for the production of fertile transgenic maize plants. EDUCATION/EXPERIENCE: B.S. degree or equivalent work experience in botany, agronomy or related field and 3 years directly related experience are required; or M.S. degree with no post-graduate laboratory experience. Knowledge or experience with gas chromatography desirable. CONTACT PERSON: JO ANN JORGENSEN

RESEARCH ASSOCIATE, MAIZE TRANSFORMATION (JOB #1389) - The successful candidate for this position will be involved with the development and evaluation of new technology for the genetic transformation of maize. This individual will also conduct the procedures to verify the production of stable maize transformants. EDUCATION/EXPERIENCE: B.S. degree or equivalent work experience in botany, plant biology or related field plus 3 years directly related experience in plant/maize tissue culture, transformation or related area. CONTACT PERSON: JO ANN JORGENSEN

Applications received by FEBRUARY 10, 1992 will be assured of consideration. However, applications will be considered until the positions are filled.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity/Affirmative Action employer. Please send resume to the contact person listed above indicating the JOB # on the outside of the envelope and the names, addresses and telephone numbers of three references in your correspondence to:

PIONEER HI-BRED INTERNATIONAL, INC.
Plant Breeding Division
Department of Biotechnology Research
Attn: (Contact Person) JOB #_____
P.O. Box 38
Johnston, IA 50131-0038

The Wellcome Trust
The Burroughs-Wellcome Fund
and the
Fogarty International Center
of the
National Institutes of Health
Announce the Availability of the

Hitchings-Elion Fellowships in the Biomedical and Behavioral Sciences

For U.S. Postdoctoral Scientists who would like 2 years of study in the United Kingdom plus 1 year in the United States

The Hitchings-Elion Fellowships will provide support for U.S. scientists (U.S. citizens or permanent residents) early in their careers who have held their most recent doctoral degree less than ten years. The purpose of the fellowships is to promote scientific collaboration in basic or clinical research between British and U.S. scientists. They will be awarded to support two years of collaborative research at the sponsor's laboratory in the United Kingdom and a third year at a sponsor’s laboratory in the U.S.A. The Wellcome Trust will provide the financial support (between £13,661 and £20,868 annually, depending on experience) for the first two years, £5,000 per year for research expenses in the U.K. and round trip economy class air fare for the fellow and up to three dependents. The Wellcome Trust also will provide an equivalent stipend in U.S. dollars for the third year. The Burroughs-Wellcome Fund will provide $7,500 for research expenses in the U.S.A. There are three application deadlines each year: January 10, May 10, and September 10 beginning in 1992. Applications will be received at the National Institutes of Health where the initial review process will be conducted. Funding decisions will be announced by the Wellcome Trust approximately six months from the application receipt date.

Those interested in obtaining more information on this new program, the scientific review process or an application kit, may contact:

International Research and Awards Branch
Fogarty International Center
National Institutes of Health
Building 31, Room B2C39
9000 Rockville Pike
Bethesda, MD 20892
Telephone: (301) 496-1653
Fax: (301) 402-0779

Those having questions regarding the fellowship stipends or the administration of the scheme in the United Kingdom should contact:

Hitchings-Elion Fellowships
The Wellcome Trust
One Park Square West
London NW1 4LJ
United Kingdom
Telephone: 071-486-4902
Fax: 071-487-4915
RESEARCH SCIENTIST
Biochemical Pharmacology

The Pharmacology Department has an opening for a Research Scientist with a Ph.D. in pharmacology, biochemistry, cell biology or related area and at least 3 years of postdoctoral experience. Ongoing research includes characterization of peptide receptors and signal transduction mechanisms in isolated cells and tissues. Experience with biochemical/molecular methods for purification and characterization of proteins of pharmacological interest is desirable. The successful candidate will have a publication record demonstrating innovative and independent research.

Amylin Pharmaceuticals, Inc. offers a stimulating and challenging opportunity to participate in a new area of biomedical science, as well as an excellent benefits package which includes equity ownership participation. Please send your curriculum vitae and addresses of three references to: Ms. Audrey McGovern KB, Human Resources Administrator, Amylin Pharmaceuticals, Inc., 9373 Towne Centre Drive, San Diego, CA 92121 or Fax (619) 552-2212. Amylin Pharmaceuticals, Inc. is an Equal Opportunity Employer.

NANOTECHNOLOGY

Reprint

Engineering a Small World: From Atomic Manipulation to Microfabrication

This 42-page special section, reprinted from the 29 November issue of Science, is your entry to the expanding world of small-scale engineering. It's a field that spans microelectronics, materials science, chemistry, molecular biology, and microscopy. In this special section, 10 illustrated articles by research leaders and by science journalists present the full scope of this small world.

For each copy, send $4.00 plus $.50 for postage to: Science
Attention: Corrine Harris
1333 H Street, N.W.
Washington, DC 20005
Telephone: 202-326-6527
Visa and MasterCard orders accepted by FAX: 202-682-0816
All orders must be prepaid. Payment in U.S. dollars only. Bulk rates available.

ANIMAL HEALTH

The NATIONAL RESEARCH COUNCIL is seeking a program officer for its Board on Agriculture's Panel on Animal Health and Veterinary Medicine. Responsibilities include organizing panel activities, and preparation and publication of reports in veterinary medicine, animal health, animal production, food processing technology and safety, regulatory issues, public health, and public policy. Position requires a Ph.D. or equivalent in veterinary medicine or a related field with special training in animal care and health, at least 5 years experience in research relating to animal health and animal food production, and demonstrated experience in science writing. Knowledge of agricultural and health-related research institutions and policy highly desirable. Salary commensurate with experience. Please send letter of application, curriculum vitae, and names of three references in confidence to: NRC/BA (HA 394-MP), 2101 Constitution Avenue, N.W., Washington, DC 20418.

EUKARYOTIC MOLECULAR BIOLOGY

Applications are being accepted for an ASSISTANT PROFESSOR position to begin fall 1992. Although the area of specialization is open, individuals using molecular approaches to investigate signal transduction, differentiation, or development are encouraged to apply. In addition to the development of a vigorous research program, the successful candidate will participate in the development of and teaching in undergraduate and graduate degree programs in cellular and molecular biology. Applicants should submit curriculum vitae, a statement of research and teaching interests, and three letters of reference to: Dr. Alan Harker, Search Committee Chair, Department of Microbiology, 307 LSE, Oklahoma State University, Stillwater, OK 74078. Review of applications will begin 15 February 1992 and continue until the position is filled. OSU is an Affirmative Action/Equal Opportunity Employer.

PLANT BIOLOGISTS

The Department of Biological Sciences at Clemson University invites applications for two tenure-track ASSISTANT PROFESSORS beginning August 1992 or later. Exceptional candidates at the associate level may be considered.

We are seeking individuals who have demonstrated outstanding potential as creative scientists in plant developmental biology, especially in molecular or genetic analysis of plant development and cellular regulation, and in plant ecology/evolutionary biology. Applicants must have postdoctoral experience. The successful candidates will be expected to establish vigorous programs of research and graduate training, teach courses in their specialty at the undergraduate and graduate levels, and provide leadership and expertise in their specialty within a growing department of 30 faculty and over 60 plant scientists on campus. Applicants should submit curriculum vitae, reprints, statement of research goals, and the names of three referees to: Angela L. Crawford, Developmental Biology Search Committee Coordinator, Department of Biological Sciences, Clemson University, Clemson, SC 29634-1903. Deadline: 28 February 1992. Clemson University, the land-grant institution of South Carolina, is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

BIOLOGIST: ASSISTANT PROFESSOR, 2-year leave replacement beginning fall 1992. Responsibilities include teaching introductory biology, microbiology, immunology, and another upper-division course in the area of molecular biology consistent with the candidate's training. Ph.D. or A.B.D. in microbiology or immunology and dedication to teaching at a selective undergraduate liberal arts college required. Affirmative Action/Equal Opportunity Employer. Please send letter of application, curriculum vitae, transcripts, and at least three letters of reference to: Christine Wilson, Secretary to the Biology Department Search Committee, Hanover College, Hanover, IN 47243.

ASSISTANT PROFESSOR CELL AND DEVELOPMENTAL BIOLOGY

The Division of Biology at Kansas State University (KSU) has a tenure-track position available at the assistant professor level effective August 1992. Applications are invited from investigators with postdoctoral experience in cell and/or developmental biology. The division has a strong research program in molecular, cell and developmental biology, excellent facilities, and a distinct mission for faculty and students. Applicants should have several million dollars in extramural grants. This position provides an opportunity to interact with members of a new NASA Center in Gravitational Biology established in the Division of Biology at KSU. The successful candidate will be expected to establish a vigorous and creative scholarly research program and to participate in our undergraduate and graduate instructor. Candidates should apply by 4 February 1992 by submitting curriculum vitae, a brief description of future research plans, and having three letters of reference sent to:

Terry C. Johnson, Director
Division of Biology, Ackert Hall
Kansas State University
Manhattan, KS 66506

KSU is an Equal Opportunity/Affirmative Action Employer.
ASSISTANT PROFESSOR, BIOCHEMISTRY.

Tenure-track position starting 20 August 1992 in an ACS-certified program at Saint Joseph College. Responsibilities include teaching biochemistry (a survey course and a course for majors) in our undergraduate women's college as well as advanced topics in biochemistry in our coeducational masters program. Directing student research is also expected. The department is well equipped with instrumentation. Send résumé, description of research interests, transcripts, and three letters of recommendation to: Search Committee, Department of Chemistry, Saint Joseph College, West Hartford, CT 06117. Applications from women and minority candidates are especially encouraged. Equal Opportunity Employer.

ASSISTANT PROFESSOR BIOCHEMISTRY

Develop an independent research program that emphasizes biochemical aspects of important biological problems. Interested in graduate and undergraduate teaching. Tenure-track, Ph.D. in biochemistry or related fields. Start-up funds and space in new molecular biology building available. Send curriculum vitae, description of research accomplishments and interests, and at least three letters of recommendation to: Dr. Richard M. Robson, Department of Biochemistry and Biophysics, 1210 Molecular Biology Building, Iowa State University, Ames, IA 50011. Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are especially encouraged.

Applications are invited for a position at the ASSISTANT PROFESSOR level in the Department of Radiation Oncology at McGill University. The appointee would be a small research group working in cancer research with the emphasis on radiation biology. The area of specialization is open to discussion and the position could be of interest to radiobiologists, tumor or cell biologists. The applicant should have a Ph.D and 2 to 3 years of relevant experience.

In accordance with Canadian Immigration requirements this notice is directed initially to Canadian citizens or permanent residents. Please send curriculum vitae and names of three references to: Dr. Shirley Lehnert, Radiation Oncology, Montreal General Hospital, 1650 Cedar Avenue, Montreal, Quebec H3C1A4, Canada.

ENVIRONMENTAL MOLECULAR BIOLOGIST

The Department of Biology at Virginia Commonwealth University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. The successful candidate will be expected to conduct research in an area of environmental molecular biology, develop external funding and direct graduate students at the M.S. level. Teaching responsibilities may include introductory environmental science, molecular biology and an advanced environmental science course. Ability to provide a scientific component to the University's Women's Studies Program is desirable. Postdoctoral experience preferred. Virginia Commonwealth University has an enrollment of over 20,000 students. The Biology Department has 26 faculty with diverse research interests. Filling the position is contingent upon approval of funding. Submit curriculum vitae, statement of research interests and names of three references by 15 February 1992 to: Dr. Sara McCowen, Chairman, Search Committee, Department of Biology, Virginia Commonwealth University, Richmond, VA 23284-2012. Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

The University of Missouri--Rolla (UMR) invites applications for a tenure-track position for 1992-1993 at the ASSISTANT/ASSOCIATE PROFESSOR level. Excellence in research and teaching is expected. A Ph.D. degree is required, and preference is given to candidates that complement campus research thrusts in environmental/polymer/biobased/foods. A biochemist or bio-organic chemist is wanted to teach undergraduate and graduate courses in biochemistry and develop an externally funded research program in area of specialization. Applicants should include curriculum vitae, outline of research plans, transcripts and three letters of recommendation. Send to: Chairman, Chemistry Search Committee, University of Missouri--Rolla, Rolla, MO 65401 by 1 February 1992 or until position is filled. UMR is an Equal Opportunity/Affirmative Action Employer.

IMMUNOLOGY POSTDOCTORAL FELLOWSHIPS

Memorial Sloan-Kettering Cancer Center

Postdoctoral fellowships, supported by an NCI National Research Service Award, are available immediately within the Immunology Program at Memorial Sloan-Kettering Cancer Center. The main research areas of the Faculty cover the biochemical, immunological, and tumor immunology.

Anthony P. Albino - Oncogenes in pathogenesis of melanoma; in vitro transformation of normal cells
Bo DuPont - Genetic, molecular and biological aspects of the MHC in humans
Ulrich Hammerling - Immunogenetics of murine and human cell surface antigens; special emphasis on T cell activation
Alan Houghton - Differentiation and transformation-related antigens of human cancer
Janet Lee - Analysis of structure, function and regulation of human MHC genes
Kenneth Lloyd - Biochemical analysis of glycoproteins and glycolipids of human tumor cells
Janka Nikolic-Zugic - Molecular and cellular aspects of T-cell development and intrathymic selection
Herbert Oettgen - Humoral and cellular immune responses to human cancer and development of biological approaches to cancer therapy
Lloyd Old - Cell surface antigens of mouse and human cancers and development of immunological approaches to the therapy of human cancer
Richard O'Reilly - Biology of allogeneic bone marrow transplantation in humans and primates; cellular interactions in engraftment, graft-host tolerance and effective immune reconstitution
Wolfgang Rettig - Immunogenetics of differentiation and malignant transformation in human tumors
Bijan Safai - Studies of epidermal keratinocytes and Langerhans cells and lymphocyte-epidermal cell interaction
Osias Stutman - Development and maintenance of functional T cells in mice; role of T and non-T cells in tumor-host interactions
See Young Yang - Gene organization and regulation of gene expression in human class I MHC region

Curriculum vitae, statement of research experience and future goals, and names of three references should be sent to: Kenneth O. Lloyd, Ph.D., Chairman, Immunology Program, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10065. Only U.S. citizens and permanent residents with M.D. or Ph.D. degrees are eligible for consideration. MSKCC is committed to equal opportunity through affirmative action and therefore, members of minority groups are encouraged to apply.

SENIOR SCIENTIST

The next major discovery in surgical adhesion research could be yours.

Ethicon, Inc., a Johnson & Johnson company long recognized as a world leader in the development and manufacture of innovative surgical products, continues to expand the scope of its scientific research. We have recently established a multi-disciplinary team to explore products which will prevent post-surgical adhesions. An opportunity has been created on this team for a Ph.D. Scientist with 3-5 years' post-doctoral research experience in the pharmaceutical industry.

You will be responsible for in vitro model development; identification of new product opportunities; in vitro evaluation of drugs, biomaterials and drug/device combinations; establishment and direction of outside research relationships, and hypothesis testing. You will also supervise one or more BS-level scientists.

We seek a professional with demonstrated expertise in some or all of the following: physiology, biochemistry, in vivo surgical technology, inflammation and tissue repair. A record of significant scientific accomplishment is desirable, as evidenced through meeting abstracts, publications and patents. Good verbal and written communication skills are required; prior supervisory experience would be a plus.

In return, you will enjoy our professional, smoke-free work environment, a competitive salary, and outstanding Johnson & Johnson benefits which include medical and dental plans and on-site total health and wellness facility. Please send your resume to: Employment Department SS, Ethicon, Inc., P.O. Box 151, Somerville, NJ 08876-0151. We are an equal opportunity employer M/F/H/V.

10 JANUARY 1992
POSITIONS OPEN

BIOCHEMISTRY

PROTEIN CHARACTERIZATION
ANALYTICAL BIOCHEMIST

Monsanto is seeking for a senior scientist with proven capabilities to develop methods for the characterization of protein materials in support of discovery and development efforts. The role is transitioning protein molecules from early, small laboratory scale to appropriate technology to meet research material needs.

You must have creative laboratory skills in analytical chemistry and be able to work collaboratively with purifiers, chemists, and engineers to recover proteins from recombinant and native sources.

Qualifications include a Ph.D. in biochemistry, protein chemistry or analytical chemistry with skills in HPLC, electrophoreses and other traditional chemical techniques. ELISA, immunoassays and a working collaborative knowledge of mass spectrometry and NMR desirable. You must be able to assume the leadership role in developing new methods as needs of emerging projects become apparent and in developing specifications for protein materials as part of a complete process and product picture.

Please send your résumé to: Monsanto Company, BBSBBD, 700 Chesterfield Village Parkway, St. Louis, MO 63198. Equal Opportunity Employer, M/F/H/V.

Monsanto

ENVIRONMENTAL STUDIES: ASSISTANT PROFESSOR, tenure track, faculty position starting August 1992. Ph.D. in physics, environmental resources, engineering, or other physical science/interdisciplinary program. Specialty: renewable energy. Send letter, curriculum vitae, transcripts, and three references postmarked or FAXed by 17 January 1992 to: Dr. Gary Kleo, Chair, Geography and Environmental Studies Search Committee, Department of Geography and Environmental Studies, San Jose State University (SJSU), San Jose, CA 95192-0116. FAX: 408-924-5303. Telephone: 408-924-5455. SJSU is an Equal Opportunity/ Affirmative Action Employer.

CYTOGENETICS RESEARCH ASSOCIATE

Position available in a research program involving the mechanisms and causes of aneuploidy induction in mammalian germ cells. M.S. or Ph.D. degree in cell biology or molecular cytogenticists required. A minimum of 3 years of relevant research experience is desired. Salary is $18,000 to $26,000 (M.S.) or $24,000 to $32,000 (Ph.D.). Send curriculum vitae and references to: John B. MacMillan, Department of Obstetrics and Gynecology, Louisiana State University Medical Center, 1501 Kings Highway, Shreveport, LA 71130. An Affirmative Action/Equal Opportunity Employer.

DREXEL FELLOWSHIPS IN BIOMEDICAL ENGINEERING AND SCIENCE

Drexel Fellowships in Biomedical Engineering and Science are supported by the Calhoun Endowment. Students can specialize in the following areas: artificial organs, bioinstrumentation, biomedical imaging and signal processing, biomedical science, biomaterials, biomedical systems and control, cardiovascular dynamics, diagnostic ultrasound, sensors and electrodes, biomechanics and rehabilitation. The fellowship includes a minimum stipend of $10,000 for a 12-month appointment beginning fall 1992. With a waiver of all tuition and fees this award is worth approximately $22,000. Deadline for application is 28 February 1992. For appointment write: Dr. John M. Reid, Acting Director, Biomedical Engineering and Science, Institute, Drexel University, Philadelphia, PA 19104.

ECOLOGIST/ZOOLOGIST. One-year replacement teaching position available for fall of 1992. Teaching responsibilities will include introductory biology, ecology and participation in the zooology laboratory. Ph.D., teaching experience required, A.B.D. considered. Submit letter of application, curriculum vitae and three letters of reference by 15 February 1992 to: Dr. Bill Syre, Chairperson, Biological Sciences Department, Albion College, Albion, Michigan 48402, or to the University of Idaho, Moscow, Idaho 83843. Formerly The College of Idaho. Women and minorities are encouraged to apply.


COOPERATIVE EXTENSION (CE) NATURAL RESOURCE SPECIALIST (North Coast). Department of Forestry and Resource Management, University of California, Berkeley. Assistant or Associate CE Specialist. Ph.D. required with experience in applied environmental science (e.g., range, forest, and wildlife) at landscape or ecosystem scale. Member of six-person team of specialists in oak woodland conservation program. Responsible for research focused on oak woodland vegetation, and extend to diverse audiences. Primary regional assignment in North Coast of California. Housed at Hopland Field Station in southern Mendocino County. For announcement(s) of position(s) follow-up and application instructions available from: Chair, Natural Resource Specialist Search Committee, Department of Forestry and Resource Management, 160 Mulford Hall, University of California, Berkeley, CA 94720. Telephone: 510-643-5428. Closing date 15 March 1992. Women and minority candidates encouraged to apply.

UNIVERSITY OF WISCONSIN–PARKSIDE TWO ASSISTANT PROFESSORS BIOLOGICAL SCIENCES

The University of Wisconsin–Parkside, located in the Chicago-Milwaukee urban corridor, is a predominately undergraduate institution. The 11-person biology department offers an excellent undergraduate program with options/concentration in general biology, pre-health sciences, and molecular biology and an M.S. program in applied molecular biology within the Department of Biotechnology. The department is well equipped for work at cell and molecular level. Applications, including a letter of interest, curriculum vitae, a list of graduate and undergraduate coursework, a brief statement of teaching and research goals, representative publications and three letters of reference should be sent to the address given below. The Search Committee is interested in hearing from qualified women and members of minority groups. Dr. S. P. Datta, Chairperson, Biological Sciences Department, University of Wisconsin–Parkside, P.O. Box 2000, Kenosha, WI 53141. Telephone: 414-595-2409/595-2327; FAX: 595-2327. The University of Wisconsin–Parkside is an Equal Opportunity/Affirmative Action Employer.

SCIENCE, VOL. 255
Postdoctoral Opportunities.

Listed below are a few of the excellent opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

Transgenic Models of Oncogenesis
Glenn Merlino, PhD

The role of peptide growth and differentiation factors in normal and disease processes is being studied using transgenic mice as model systems. Emphasis is being placed on the molecular mechanisms associated with transgene-induced tumorigenesis. Detailed analysis of liver and mammary cancer in transforming growth factor alpha (TGFα) transgenic mice is currently underway. Candidates should have a strong background in molecular biology techniques, but extensive training in transgenic technology is not required. Applicants must be US citizens or permanent residents. Laboratory of Molecular Biology (OE-5), NCI, Building 36, Room 1D28, 9000 Rockville Pike, Bethesda, MD 20892.

Transfusion Science
P. Ann Hoppe

Laboratory research focuses on transfusion-transmitted diseases caused by retroviruses and hepatitis viruses. In addition, the fellow will be involved in scientific and regulatory programs for the evaluation of the preparation, preservation, and safety of blood and blood products. Division of Transfusion Science (OE-5), CBER/FDA, MO50, Building 29, Room 104, 8800 Rockville Pike, Bethesda, MD 20892.

Molecular Biology
Joyce Goldstein, PhD

The genetic polymorphisms of cytochrome P450 in humans are being studied using molecular biology techniques. Studies will involve use of cDNA and gene libraries, sequencing, hybridization studies, and PCR analysis. Previous experience with these techniques is highly desirable. Laboratory of Biochemical Risk Analysis (OE-5), Division of Biometry and Risk Assessment, NIEHS, Mail Drop B3-02, PO Box 12233, Research Triangle Park, NC 22709.

Molecular Hematology
John S. Finlayson, PhD

The physical chemistry of plasma proteins, clotting factors and thrombolytics (including recombinant products), monoclonal antibodies, and cellular components of blood are being studied using molecular biology techniques. The overall objective is to better understand these constituents and their properties to improve techniques for their detection and measurement. Division of Hematology (OE-5), CBER/FDA, MO45, Building 29, Room 104, 8800 Rockville Pike, Bethesda, MD 20892.

Molecular and Cell Biology
of Peptide Growth Factors
Matthew M. Rechler, MD

Molecular biological and biochemical approaches are used to understand the role of insulin-like growth factor I and II in mitogenesis and cell differentiation. Present interest focuses on the IGF-binding proteins as modulators of IGF action, using cell culture, and animal and disease model systems. Transcriptional regulation of IGBP expression, and the mechanisms of IGBP action are under study. Growth and Development Section (OE-5), Molecular, Cellular and Nutritional Endocrinology Branch, NIDDK, Building 10, Room 8D08, 9000 Rockville Pike, Bethesda, MD 20892.

Molecular Neurobiology of Alzheimer's Disease
Gerald A. Higgins, PhD

Current studies are focused on alternative splicing of the amyloid precursor protein gene and its contribution to amyloid neuropathology. Transgenic animal models of Alzheimer's disease are being developed and characterized in a collaborative effort. Regulation of neurotrophin gene expression and mechanisms of neuronal cell death are also under investigation. Applicants should have experience in molecular biology or protein chemistry. Laboratory of Biological Chemistry (OE-5), NIA, Gerontology Research Center, Room 1B2, 4940 Eastern Avenue, Baltimore, Maryland 21224.

Additional Postdoctoral Fellowship Opportunities

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3014922221). The settings for modem access are "7,Even,1". When connected to NIH, type in "vt100" at the connect message, "F5E" at initial, and "AJLI" at account. Those interested in receiving a catalog featuring descriptions of NIH research laboratories and other postdoctoral opportunities may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

To Apply

If you hold a PhD, MD, or equivalent degree and would like to be considered for one of these positions, please send a cover letter, Curriculum Vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
POSITIONS OPEN

UNIVERSITY OF CALIFORNIA RIVERSIDE

DEPARTMENT OF BIOCHEMISTRY

FACULTY POSITION IN PLANT BIOCHEMISTRY

The Department of Biochemistry is seeking a new faculty member in the area of plant biochemistry. The Department has a long history of excellence in plant and agricultural research, and is seeking to further strengthen its programs in the areas of plant biochemistry and agricultural technology. The position is available at the ASSISTANT PROFESSOR (tenure-track) level with joint 9-month appointments in the College of Natural and Agricultural Sciences and the Agricultural Experiment Station to be effective 1 July 1992 with the possibility of summer salary. Requirements for this position include a demonstrated record of productivity in the general area of plant biochemistry. Although all research areas will be considered, some preference will be given to candidates with backgrounds in physical biochemistry and/or molecular biology. Specific research areas include, but are not limited to, the study of structure-function relationships of plant systems; defense mechanisms against diseases, environmental stresses, and pests; gene expression; plant metabololism; enzymology; protein engineering; or plant developmental biology. Both the strength of the existing research record and the potential for developing a strong, innovative research program, and teaching at the undergraduate and graduate level to fit within the existing structure of plant research, will be considered. Search Committee, Department of Biochemistry, University of California, Riverside, CA 92521-0129. Deadline for applications is 15 February 1992. The University of California is an Equal Opportunity/Equal Employment/Employer; all qualified candidates, including minorities and women, are encouraged to apply.

MEDICAL RESEARCH ASSISTANT: Northwestern research center is seeking for a medical research assistant. Must possess B.S. in biological sciences or chemistry and 3 years of experience in job offered. Must perform laboratory analysis including reagent preparation, data entry and analysis, and operate and calibrate a variety of laboratory equipment (balances, centrifuges, pH meters, hand and automated micropipettes, radioisotope counting equipment, etc.). Must utilize radioimmunoassays (steroid and protein), Sephadex column chromatography, tissue culture and cell culture techniques for bioassays. Must handle nonhuman primates in a laboratory setting. Will be exposed to various organic solvents and other hazardous chemicals in rigorously controlled conditions. Will be exposed to biohazards (animals and their tissue as well as human biological samples) and work with low activity radioisotopes (3H, 125I). Forty hour work week is required. Salary: $20,080 per year. Mail resume by 11 February 1992 to: Employment Division, Attention: Job Order Number 5550245, 875 Union Street N.E., Room 201, Salem, OR 97311.

FACULTY POSITIONS

CORNELL UNIVERSITY

MEDICAL COLLEGE

DEPARTMENT OF PHARMACOLOGY

Candidates are sought for three tenure-track positions at the level of ASSISTANT or ASSOCIATE PROFESSOR. Candidates with interests in a wide range of areas will be considered, including molecular pharmacology, drug-receptor interactions, and signal transduction mechanisms. The responsibilities of this position include development of research projects leading to independent, program-related, and participatory research in both medical and graduate student teaching programs in the department. Applicants should submit curriculum vitae, a statement of research (no abstract), and should arrange to have letters sent from at least three scientists who can evaluate the candidate's accomplishments. Cornell University Medical College is a partner in the New York Hospital--Cornell Medical Center and is affiliated with Memorial Sloan Kettering Cancer Center and Rockefeller University. Applications should be sent to: Chair, Pharmacology Search Committee, Department of Pharmacology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Equal Employment Opportunity/Affirmative Action Employer. M/F/V.

VISITING EMINENT SCHOLAR

BIOLOGY/SCIENCE EDUCATION

Jacksonville State University invites applications for a visiting appointment for 1991–1992 as eminent scholar in the Department of Biology. Appointment will bring to the department a distinguished scholar and ability in both biology and science education. Duties are negotiable; however, the appointee will be expected to teach one or more undergraduate and/or graduate courses and conduct research in areas of the individual's interest; to assist the faculty in the development of laboratories that emphasize science as a process in introductory biology and/or other courses); and to be available for one year to participate in the development of off-campus environmental activities at Little River Canyon (a proposed National Scenic River). Appointments are available for one part-time (Ph.D. and current rank of associate professor or professor, enjoy a national reputation for scholarly productivity and have demonstrated excellence in teaching. Terms of the appointment, including length (12 months or less), salary (competitive, depending on qualifications, teaching experience, and research record) and (other support), etc., are negotiable. Jacksonville State University is a primarily undergraduate campus, enrolling 8000 students. Located in the center of the state, Jacksonville State University is within driving distance of both Birmingham and Atlanta. Applications are accepted until position filled; initial review will begin 17 February 1992. Send letter of application, resume, and the names, addresses, and telephone numbers of three references to: Personnel Services, Jacksonville State University, Jacksonville, AL 36265. An Equal Opportunity/Affirmative Action Employer.
Epidemiological Studies

Health Effects of Agent Orange Adverse Effects of Childhood Vaccines

The INSTITUTE OF MEDICINE is seeking an associate study director and a program officer for a project on the health effects of Agent Orange on Vietnam veterans, and a study director for a project on the possible adverse effects of childhood vaccines.

ASSOCIATE STUDY DIRECTOR

Responsibilities include assisting in planning study strategy; assembling, reviewing, and analyzing epidemiological, medical, and other scientific literature; coordinating the efforts of others in reviewing information; writing and editing background material; and assisting the study director with committee management and other tasks. Requires M.D. or Ph.D., or equivalent preferably related to epidemiology, at least 4 years experience carrying out and reviewing epidemiological or related scientific studies—preferably in occupational or environmental health—ability to understand, critique, and summarize results of scientific studies, excellent writing and analytical skills, and ability to work with scientific experts from a number of fields.

PROGRAM OFFICER

Responsibilities include assembling and organizing epidemiological, medical, and other scientific literature; assisting other in reviewing information; assisting study director in organizing public hearings and meetings and summarizing results; preparing statistical and graphical analyses; helping prepare reports; and other tasks. Requires M.A. or equivalent in a quantitative field, and at least 5 years experience with literature searching, data base development, statistical analyses, committee management, and editorial work.

STUDY DIRECTOR

Responsibilities include assisting in the planning of a study strategy; assembling, reviewing, and analyzing epidemiological, medical, and other scientific literature; coordinating efforts in reviewing information; writing and editing background material; and assisting study director with committee management and other tasks. Requires M.D. or Ph.D., or equivalent preferably related to epidemiology, at least 4 years experience carrying out and reviewing epidemiological or related scientific studies—preferably in pediatrics, immunology, or neurology—ability to understand, critique, and summarize results of scientific studies, excellent writing and analytical skills, and ability to work with scientific experts.

Please send resume in confidence to:
NRC/ IOM, M.S.
FO-3026, 2101 Constitution Ave., N.W.
Washington, D.C. 20418.

Research Leadership

A TIME FOR ACHIEVEMENT

There is that place in time in the progress of a company, when it stands at the threshold of an era of splendid opportunity. For Glaxo Inc., the fastest growing ethical pharmaceutical company in the U.S., that time is now.

The recent opening of the new Glaxo Inc. Girolami Research Institute, located at our headquarters site in Research Triangle Park, NC, represents our continued commitment to the discovery of medicines for the treatment of serious diseases of mankind. We will strengthen our biological research leadership with the appointment of three Scientists. These Scientists will play a crucial role in the direction of established research groups and be instrumental in the augmentation of our research base through additional recruitment.

DIRECTOR OF CELLULAR SCIENCES

This is a senior and highly influential position for an established researcher and scientific leader. The individual will strengthen and enrich the scientific mix of our research management team and provide leadership and strategic research direction to our therapeutic area of metabolic diseases, particularly for the important diabetes programs.

Selected candidate will direct existing world class research groups (in diabetes, tumor cell biology, signal transduction, ion channel biology, gene control, and macrophage and bone cell biology) and play a key role in the expansion and diversification of each of these departments and our new biological research division. Individual must be an established scientific leader in one of the growth areas of diabetes research.

Please refer to Job # 9129B148-SC on all resumes.

SECTION HEAD Signal Transduction & Cell Cycle Regulation

We are directing considerable biological and chemical effort toward the study of signal transduction, oncopgenes and cell cycle control in cancer cells. To assist in our search for potential drug targets, we seek a Molecular or Cell Biologist to lead an established team in the Department of Cell Biology.

This position will provide opportunities for leadership and innovation with the support of an established team of biologists with relevant experience. We will provide you with the interdisciplinary support required to turn ideas into action and action into successful drug discovery and career advancement.

The successful candidate will have a Ph.D. or M.D. with a minimum of 5 years relevant post-doctoral experience and 2 years leadership of a research team. Significant research contribution and experience in the regulation of cyclins and cell-cycle dependent kinases is required.

Please refer to Job # 9125B116-SC on all resumes.

SECTION HEAD Control of Gene Expression

We will expand our Department of Molecular Biology by the creation of a new section dedicated to understanding the control of gene expression at the DNA level. Although Glaxo has several research teams committed to other aspects of gene control, this section head will lead a new team of specialists in transcriptional control.

The successful candidate will have a Ph.D. or M.D. with a minimum of 5 years relevant post-doctoral experience and 2 years leadership of a research team. This is a challenging position for an individual with a record of scientific achievement evidenced by publications of consistent high quality.

Please refer to Job # 9126B119-SC on all resumes.

Our Research Triangle Park, NC location (near Raleigh, Durham and Chapel Hill) offers a lot more for people who seek a well-rounded lifestyle. This world-famous scientific, industrial and academic community offers access to respected universities, beautiful residential areas, excellent health care and abundant cultural and recreational facilities. Join Glaxo and enjoy excellent salaries, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction.

Send your resume, INDICATING THE CORRESPONDING JOB # and salary history, to: Human Resources Department, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/HIV.

Glaxo Inc.
CHAIR OF BIOLOGY DEPARTMENT
WESTERN WASHINGTON UNIVERSITY

The Biology Department of Western Washington University invites applications and nominations for the position of department Chair. Appointment will be at senior level with tenure. Salary is negotiable. We are seeking a person with a Ph.D. in a biological science with accomplishments in teaching and research to provide vision and leadership. The Department is committed to excellence in undergraduate education, with research playing an important role in the educational process. The 16-member faculty offers a solid B.S. degree core curriculum and has programs in marine biology, terrestrial ecology, and cell and molecular biology. We currently have 400 biology undergraduate majors, and a Master’s program with 17 students. Supporting resources include the Shannon Point Marine Center, several study sites which represent the rich diversity of Northwest Washington habitats, and a University Instrument Center. A new Biology Building is under design with occupancy scheduled for 1995.

Applicants should submit a curriculum vitae, a statement of teaching and administrative expertise, and four letters of reference to:
Professor James Talbot, Chair
Department of Geology
Western Washington University
Bellingham, WA 98225-9080

The expected starting date will be September 1992 or earlier.

The committee will begin reviewing applications on February 15 and the search will remain open until the position is filled.

WWU is committed to enhancing the diversity of the faculty. Women and minorities and persons with a disability are encouraged to apply. WWU is an Affirmative Action/Equal Opportunity Employer.

NeXagen, Inc., a new, Boulder-based biotechnology company, is seeking an elite group of senior scientists and research associates dedicated to drug development. The Company’s scientists will utilize the next generation of drug discovery technology to identify and design novel therapeutic agents for the treatment of several major diseases. Successful candidates will be involved in an interactive research program with many scientists at the University of Colorado Boulder Campus.

Senior Scientists
NeXagen is seeking scientists with Ph.Ds. or M.Ds., having at least two years of postdoctoral experience. Very experienced scientists are encouraged to apply. Candidates should have a documented ability to conduct independent research and have a strong background in several of the following areas: cloning and analysis of nucleic acids and peptides, nucleotide and peptide chemistry, protein purification, receptor/ligand interactions, macromolecule delivery and transport within mammalian cells.

Research Associates
The Company requests that applicants have a B.S. or M.S. and prior laboratory experience. Candidates with a background in molecular biology or biochemistry, and with exposure to one or more of the areas mentioned above, are strongly desired.

NeXagen offers competitive salaries and benefits as well as the opportunity to work in a dynamic, highly motivated and interactive scientific environment. For consideration, please submit your curriculum vitae to: Larry Gold, Recruitment Effort, NeXagen, Inc., 1085 14th Street, Suite 1203, Boulder, CO 80302.

NeXagen

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CURRENT DISTRIBUTION 160,000
The Scientist will determine the metabolic fate of candidate compounds using radiolabeled and stable isotope labeled substrates, as well as isolate and structurally characterize the metabolites of drug candidates using mass spectrometry, nuclear magnetic resonance spectrometry, and chemical derivatization techniques. The Scientist will be expected to establish a basic research program in an area of personal scientific expertise which will enhance the study of biotransformation pathways and mechanisms within the group. Since the Scientist will assume a high degree of both project and discovery related responsibilities, the position will draw heavily upon individual scientific initiative, independence and innovation. Excellent interpersonal and communication skills are essential. Publications and presentation of research findings are strongly encouraged.

Candidates should possess a Ph.D. in Analytical Chemistry, Medicinal Chemistry, or a related discipline with postdoctoral experience highly desirable. The essential elements are the following: relevant experience in analytical methodologies to quantify, isolate and characterize metabolites from biological milieu and knowledge of biochemical pathways of biotransformation.

Our research facility offers state-of-the-art instrumentation in mass spectrometry (Sciex API III, Finnigan TSQ70, VG707EHF), as well as gas and liquid chromatography with various detection methods. We are located in suburban Philadelphia, Valley Forge, PA. We offer a competitive compensation/benefits relocation package and a stimulating team environment. For confidential consideration, send your resume to: Helene McConnell, M032, Employment Administrator, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0930. We are an Equal Opportunity Employer, M/F/HIV.

SmithKline Beecham Pharmaceuticals

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**NIH PREDOCTORAL FELLOWSHIPS IN BIOTECHNOLOGY**

**LEHIGH UNIVERSITY Center for Molecular Bioscience & Biotechnology**

Interested students are invited to apply for predoctoral fellowships in biotechnology. This is an interdisciplinary program involving the Departments of Chemical Engineering, Chemistry, Molecular Biology, and Psychology leading to the Ph.D. degree. The positions carry full tuition and competitive 12-month stipends.

Research interests of participating faculty include mammalian proteoglycan and glycoprotein structure and function, recombinant glycoprotein therapeutics, protein/DNA interactions and alternate DNA conformations, enzyme immunoassay technology and protein/surface interactions; microbial, mammalian and plant cell genetics, bioreactor instrumentation and control, bioseparations; virology and vaccine technology, regulation of gene expression in plant and animal cells, microbial genetics of *Su*fo*lo*b*us, hormone receptors and reproductive cell biology; mechanism of action of steroids in the central nervous system, biochemistry/pharmacology of neurotrauma, neuroendocrine regulation of behavior, energy utilization and fertility.

Interested individuals should contact Dr. A.E. Humphrey, Program Director, CMBB/LU, 111 Research Drive, Bethlehem, PA 18015, 215-758-5426. Application deadline 3/1/92.

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**Vice President/Research and Development**

Alcide Corporation, a publicly-held company based in Norwalk, Connecticut, develops and markets unique products based on its proprietary biocidal chemistry. Alcide has a profitable international animal health business. In addition, Alcide technology is currently under development for a variety of applications in human pharmaceuticals, animal health and food processing. Oral care applications of our technology are being developed as part of a strategic alliance with a Fortune 50 company.

We are seeking an experienced Vice President of Research and Development to manage our diverse R&D programs. A successful candidate will have a Ph.D. in chemistry, biochemistry or a related life science, at least 5-years' experience in pharmaceutical or animal health R&D and be able to function effectively in a small company setting. A knowledge of chlorine chemistry is helpful.

A competitive compensation package is being offered, including an excellent opportunity to participate in the success of the company through stock options. Please send a curriculum vitae, list of four references and a letter describing professional objectives and salary history to Joseph A. Sasenick, President and Chief Operating Officer, Alcide Corporation, One Willard Road, Norwalk, CT 06851. All inquiries will be kept in confidence.

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**RESEARCH ASSISTANT**

Baxter Diagnostics Inc., a leading supplier of diagnostic products and instrumentation for clinical laboratories has an opportunity available for a Research Assistant in our Miami-based Paramax Reagent Research & Development Department.

The successful applicant will join an interdisciplinary research team that is developing new types of diagnostic immunoassays. The ideal candidate will have a B.S. in Chemistry or a B.S. in a Life Science, with a strong chemical background and 0-4 years biochemical laboratory research experience. Experience in the following areas of protein biochemistry is highly desirable: ultraviolet/visible spectroscopy, electrophoresis, column chromatography, immunochemical methods and computer data analysis.

We are seeking a highly motivated individual who is capable of learning new skills quickly. The successful applicant must possess excellent interpersonal, verbal and written communication skills. We offer an excellent scientific environment, supported by a highly competitive salary and complete benefits package. For confidential consideration, please send your resume to: Baxter Diagnostics Inc., Paramax Diagnostics, P.O. Box 3152, Equal Opportunity Employer. We Conduct Pre-Employment Drug Screening.
FACULTY POSITIONS
DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS
UNIVERSITY OF PENNSYLVANIA
SCHOOL OF MEDICINE

The Department of Biochemistry and Biophysics at the University of Pennsylvania School of Medicine invites applications from outstanding candidates for full-time senior and junior faculty appointments. The search will focus on individuals with research interests in molecular and cellular biochemistry and biology although exceptionally qualified candidates in any area broadly related to biochemistry and biophysics will be considered.

Candidates should forward their curriculum vitae, a summary of research interests, and arrange for three letters of recommendation to be sent to: Ms. Ruth Keris, Staff Assistant, Department of Biochemistry and Biophysics, University of Pennsylvania School of Medicine, Philadelphia, PA 19104–6059. The deadline for applications is 15 April 1992. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

Duke University. FACULTY POSITION IN CELL AND LEUKOCYTE BIOLOGY. We have an opening, beginning in early 1992, for a junior faculty member (non tenure track) to join our research group. The laboratory has a number of faculty members with diverse backgrounds in cell biology, molecular biology, biochemistry, immunology, and leukocyte biology, investigating the functions of macrophages and how these are regulated. Interactions between second messengers and gene regulation are emphasized. We seek a highly qualified scientist with interests and skills in second messengers. A background in either cyclic nucleotides, kinases, or ion fluxes would be highly desirable but not necessary. The position offers the opportunity for the successful candidate to join a well-established laboratory, develop and supervise a productive ongoing research program, and develop independent research initiatives. An attractive working environment and salary are offered. Interested individuals should send their curriculum vitae and the names of at least three references to: Dolph O. Adams, M.D., Ph.D., Director, Laboratory of Cell and Molecular Leukocytes, Box 3712, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN BIOCHEMISTRY AND NUTRITIONAL SCIENCES

Applications are invited for separate tenure-track positions in the Department of Biochemistry and the Department of Nutritional Sciences at Oklahoma State University. Preference will be given to applicants at the level of ASSISTANT PROFESSOR who are using modern molecular biological approaches to investigate important problems in biochemistry and nutrition. Individuals with research interest in areas of regulation of gene expression or protein structure-function using recombinant DNA approaches are particularly encouraged to apply. Applications from exceptional individuals with other research interests and established investigators also will be considered. Applicants should have their Ph.D. and postdoctoral experience in biochemistry, nutrition or a related field. They will be expected to develop an active, externally funded research program and to participate in the undergraduate and graduate teaching programs of the departments. Applicants should include their curriculum vitae, copies of representative publications, and a brief statement of their current and future research interests. Three people well acquainted with the applicant's research and teaching abilities should be asked to send letters of reference. Review of applications will begin 1 March 1992 with the intent of filling the positions in the fall 1992. Inquiries and applications should be sent to: Dr. Stephen D. Feltis, Chair, Search Committees, Department of Biochemistry, Department of Nutritional Sciences, 454 Physical Sciences II Building, Oklahoma State University, Stillwater, OK 74078–0494. Telephone: 405–744–6189. Oklahoma State University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS IN MICROBIOLOGY

The Discipline of Microbiology invites applications for a tenure-track position in microbiology at the ASSISTANT PROFESSOR level beginning fall 1992. A Ph.D. is required. The candidate is expected to teach medical microbiology to first- and second-year osteopathic medical students. Research is encouraged. Applicants should submit curriculum vitae, transcripts, three letters of recommendation and a statement of teaching philosophy and career objectives to:

Chairman, Microbiology Search Committee
College of Osteopathic Medicine of the Pacific College Plaza
Pomona, CA 91766

FACULTY POSITION IN ORGANIC CHEMISTRY

Bayor University, ORGANIC CHEMISTRY FACULTY POSITION. The Department of Chemistry invites applications for a tenure-track organic faculty position at the ASSISTANT PROFESSOR level, beginning fall 1992. A Ph.D. in chemistry is required and postdoctoral experience is desirable. The successful applicant will be expected to demonstrate excellence in teaching at the undergraduate level and to establish an independent research program capable of attracting graduate students (M.S. and Ph.D.) and extramural funding. A postdoctoral research statement is required. Send a letter of application, curriculum vitae, including a list of publications, and a description of research interests and plans, and have three letters of recommendation and graduate and undergraduate transcripts sent to: Professor Stephen L. Gipson, Department of Chemistry, P.O. Box 97348, Bayor University, Waco, TX 76798. The deadline for receipt of all materials is 10 February 1992. Bayor University is governed by an all-Baptist Board of Regents and is operated within the Christian-oriented aims and ideals of Baptists. An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

FACULTY POSITION IN SOLAR PHYSICS

The Department of Physics invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. The position will begin in the fall 1992. Responsibilities include teaching undergraduate and graduate courses in solar and Space physics, and mentoring graduate students. A Ph.D. in physics is required. Excellent candidates from other fields with related interests are also encouraged to apply. Applicants should submit a curriculum vitae, a statement of teaching philosophy and expected contributions to research, three letters of recommendation, and a research statement. All materials should be sent to: Dr. Jerome M. Hildebrandt, Chair, Department of Physics, University of Texas at Arlington, Box 17216, Arlington, TX 76019. Review of applications will begin 15 February 1992 and continue until the position is filled. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN ANIMAL BIOLOGY

As part of our expanding program, the Department of Biological Sciences invites applications for a full-time, tenure-track position at the ASSISTANT PROFESSOR level. Our interdisciplinary approach to animal biology seeks individuals who will foster further investigations into the nature of animal biological systems. A Ph.D. in biology or a closely related discipline is required, and postdoctoral work is desirable. Applicants should have a commitment to excellence in research and teaching. The successful candidate's responsibilities will include teaching undergraduate and graduate courses in animal biology, and participating in the recruitment of students. Applicants should write a letter of application, curriculum vitae, a statement of research goals, and three letters of reference to: Dr. H. Bernard Hartman, Chairman, Department of Biological Sciences, Endicott College, Beverly, MA 01915. An Equal Opportunity/Affirmative Action Employer.

IMMUNOLOGY, IMMUNOCHEMISTRY, AND PROTEIN CHEMISTRY

The Immunology Division of the Beckman Research Institute of the City of Hope, Duarte, California, is inviting applications for a tenure-track staff position in basic research areas including immunology, immunochemistry, and protein chemistry. The Division has a broad base in research activities with major strengths in immunology and protein chemistry. Collaborative research within the Division and with other Divisions is highly encouraged. Qualified individuals should send their curriculum vitae by 10 February 1992 to: Dr. John E. Shively, Chairman of the Division of Immunology, Beckman Research Institute of the City of Hope, 1450 East Duarte Road, Duarte, CA 91010. An Equal Opportunity/Affirmative Action Employer.

NATIONAL PARK SERVICE
RESEARCH ECOLOGIST, GM-408-13

This position serves as the Director of the National Park Service Cooperative Program (CPSU), University of Tennessee. The Director supervises two research scientists and coordinates planning, administration, and contract functions for the unit. The Director will also define and conduct an ecosystem level research program in the Cumberland Plateau of the East Coast, Southeastern States. Scientists at the CPSU provide expert advice to parks on research and resource management issues. Interested applicants should write or call: Office of Personnel Management, Huntsville Area Office, 3323 Memorial Parkway South, Building 600, Suite 347, Huntsville, AL 35801–5311. Telephone: 205–544–8803 (between the hours of 9:00 a.m. and 5:00 p.m.) or 1–900–990–9200 (24 hours a day). All inquiries should reference position control number HU20044. Applications must be postmarked no later than 24 January 1992.

FACULTY POSITIONS IN MOLECULAR PHARMACOLOGY

Two tenure-track ASSISTANT/ASSOCIATE PROFESSOR positions exist in the Department of Molecular Pharmacology and Toxicology. Candidates must have Ph.D. degree in pharmacology, biological chemistry, or related discipline, postdoctoral experience, and strong commitment to excellence in research and teaching in the professional and graduate programs. Preference will be given to candidates with demonstrated research accomplishments in neuropharmacology using biochemical and/or molecular approaches, and will be expected to maintain an independent, externally funded research program. Interviews to begin in mid-February, to fill by July 1992. Send curriculum vitae, set of selected reprints, brief statement of research interests, and three references to: Dr. Timothy Chan, Chairman Department of Molecular Pharmacology and Toxicology USC School of Pharmacy 1985 Zonal Avenue, Los Angeles, CA 90033 Equal Opportunity Employer, M/F/H.

FACULTY POSITIONS IN BIOCHEMISTRY

The Department of Biochemistry at the University of California, San Francisco, invites applications for faculty positions at the ASSISTANT PROFESSOR level, beginning in Fall 1992. Candidates should have a Ph.D. in biochemistry and postdoctoral experience. Individuals with experience in the areas of macromolecular interactions, three-dimensional structure determination, and the interactions of small molecules with macromolecules are particularly encouraged to apply. Applicants should submit curriculum vitae, a statement of research interests and plans, three letters of recommendation, and a research statement. Applications received by 15 October 1991 will receive full consideration. Applications should be sent to: Dr. Charles A. Thomas, Chairman, Search Committee, Department of Biochemistry, University of California, San Francisco, CA 94143.
PHARMACOLOGY RESEARCH ASSOCIATE PROGRAM

The National Institute of General Medical Sciences is seeking applications for the Pharmacology Research Associate (PRAT) Program at the National Institutes of Health (NIH). The PRAT program is a 2 year postdoctoral training program for 11 recently training, highly qualified scientists per year to spend 2 years working in one of the research laboratories of the component institutes of the NIH and the Alcohol, Drug Abuse, and Mental Health Administration. A wide variety of research opportunities are available for people trained in pharmacology who wish to expand training at the NIH, and for people trained in related areas who wish to apply their training to problems of pharmacological interest. Research proposals are not required for application. Deadline for receipt of applications for positions beginning in July of 1993 is March 2, 1992. For more information and application material, please write to:

Program Assistant
Pharmacology Research Associate Program
National Institute of General Medical Sciences
Westwood Building, Room 919
Bethesda, Maryland 20892

NIH is an Equal Opportunity Employer

Applied Biosystems, a major supplier of systems and tools for biotechnology research, is having a remarkable impact on the advancement of scientific knowledge. As we grow, so does our need for top talent to join our team in the San Francisco Bay area—one of the largest biotechnology communities in the country.

Senior Chemist

We are seeking a senior-level Chemist to be responsible for research and development of new reagents for automated DNA synthesis. This will include conducting bench level chemistry and instrument development for the analysis, synthesis, and purification of DNA.

The ideal candidate will possess a Ph.D. in Organic Chemistry with experience synthesizing complex molecules, including nucleic acids. Proficiency with HPLC, NMR and other modern analytical skills is required along with good communication abilities. Mechanical/electrical/computer aptitude is a plus.

We offer a competitive salary and benefits package. Please forward your resume, indicating Ref. #1090, to Applied Biosystems, Inc., Human Resources, 850 Lincoln Centre Drive, Foster City, CA 94404.

Applied Biosystems is an equal opportunity employer.

Opportunities In Mass Spectrometry

Wyeth-Ayerst Research
We're building on our success.

Wyeth-Ayerst Laboratories, a division of Fortune 100 American Home Products Corporation, is expanding its R&D activities. As a result, several new opportunities exist for experienced mass spectrometrists at our Princeton, New Jersey research facility.

Pharmacokinetic/Pharmacodynamic Ph.D.

This position will support pharmacokinetic/pharmacodynamic studies using mass spectrometric techniques. Responsibilities will include supervision of BS/MS level mass spectrometrists as well as hands on operation and maintenance of MS/MS instruments, evaluation of data, method developments, and interfacing with drug metabolism scientists. A Ph.D. in Chemistry, computer literacy and 2-5 years experience in quantitative mass spectrometry are required. Experience with the applications of LC/MS/MS techniques in trace levels quantitation of drugs and metabolites in biological matrices is highly desirable. (Position #421)

Pharmaceutical & Metabolic Research Ph.D.

This position will employ mass spectrometry to solve structural problems related to pharmaceutical and metabolic research. Responsibilities will include hands on operation and maintenance of instruments, interpretation of mass spectra, methods development and interfacing with medicinal chemists and metabolic scientists. A Ph.D. in Chemistry, computer literacy and 1-5 years experience in qualitative mass spectrometry are required. Strong mass spectral interpretation skills and experience with LC/MS/MS techniques are highly desirable. (Position #423-69)

Qualitative/Quantitative BS/MS

This position will support either qualitative or quantitative mass spectrometry. Major responsibilities will be to operate and maintain mass spectrometers, as well as to evaluate mass spectral results. A BS/MS in Chemistry, some experience with mass spectrometry, computer literacy, GC, LC and microderivatization techniques is highly desirable. (Position #425)

Wyeth-Ayerst offers an excellent compensation and benefits package in our highly professional environment. Our research laboratory is just minutes away from Princeton University and is convenient to many cultural, educational and leisure activities. For confidential consideration, please forward resume and salary requirements to: WYETH-AYERST RESEARCH, Personnel Manager, (Reference Position #), CN 8000, Princeton, NJ 08543-8000. An equal opportunity employer, M/F/D/V responses encouraged.
POSITIONS OPEN

FACULTY POSITIONS

CELL REGULATION/PHARMACOLOGY

THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

The Department of Pharmacology of The University of Texas Southwestern Medical Center seeks applicants for tenure-track positions at the level of ASSISTANT PROFESSOR. Applicants must have a relevant Ph.D. or M.D. degree, postdoctoral training, and show evidence of firm commitment to a career in independent research. Departmental faculty apply molecular and cellular techniques to approach problems of fundamental importance to cell regulation. Generation of start-up funds and ongoing research support are available to candidates with outstanding potential. Send curriculum vitae, a brief description of proposed research, and up to three reprints to: Dr. W. Ken DeMey, Department of Pharmacology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

MACROMOLECULAR STRUCTURE/FUNCTION

The Biochemistry Department of Tufts University invites applications for a tenure-track position at the ASSISTANT, ASSOCIATE OR FULL PROFESSOR level. We are seeking a candidate who has demonstrated excellence in the area of structure-function relationships in proteins and who can develop and sustain a creative research program. The candidate will be expected to establish and maintain an active research program in NMR spectroscopy and take advantage of a newly acquired 500-MHz spectrometer. Detailed curriculum vitae, several reprints, a summary of planned research and three letters of reference should be sent to: Chairman, Search Committee, Department of Biochemistry, Tufts University Health Science Campus, 136 Harrison Avenue, Boston, MA 02111. Tufts University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS IN VISION SCIENCE

The Department of Physiological Optics seeks two outstanding scientists interested in the eye and vision. These scientists should be committed to their own independent research programs. Successful applicants will be expected to participate in the graduate program and the optometry program. However, teaching loads are compatible with maintaining departmental strength and with investigator-initiated research. Faculty in the department interact closely with other researchers on the UAB campus through the Vision Research Science Center. The responsibilities at the ASSISTANT PROFESSOR level and are on a tenure track. There is particular interest in adding research expertise in the areas of: ocular microbiology and immunology, anatomy, and the development of the eye and visual system. Applicants should send curriculum vitae with a statement of research interests to: Dr. Graeme Wilson, Chairman, Department of Physiological Optics, School of Optometry, The University of Alabama at Birmingham, Birmingham, AL 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

ASSOCIATE CHIEF OF STAFF, RESEARCH, CLEVELAND, OHIO

VETERANS ADMINISTRATION MEDICAL CENTER

Responsible for $8.5 million annual VA research funding among 50 principal investigators in multiple disciplines in general medical research, complemented by significant efforts in medical education research. Current research program encompasses 42,000 square feet. Affiliated with Case Western Reserve University. Candidates need proven ability to obtain research funding, detailed understanding of fundin mechanisms on the local/national levels, competence in management of research programs, academic credentials, writing faculty appointment, and Board certification. Inquiries and curriculum vitae to: George B. Naff, M.D., Chairperson, ACROS/Research Search Committee, VA Medical Center, 10701 East Boulevard, Cleveland, OH 44106. Telephone: 216-791-3800. Equal Opportunity Employer.

POSITIONS OPEN

DIRECTOR

DIVISION OF MINERAL RESOURCES/STATE GEOLOGIST

The Virginia Department of Mines, Minerals and Energy is seeking an individual to direct the comprehensive research activities of the Division of Mineral Resources. This position is located in Charlottesville, Virginia, and is responsible for the management and administration of statewide programs for development of mineral resources, geologic economic maps, descriptive geologic reports, and basic geologic research. Salary range is $42,994 to $65,645. This is a qualified position to direct a group of professional staff and conduct current and ongoing research programs. Research areas include: environmental geology; and topographic mapping. Progressive responsible management positions in geology and mineral resources, including supervision of a professional staff and carrying out significant programs in economic development, environmental control, and geologic studies. To apply: Send résumé to: Virginia Department of Mines, Minerals and Energy, Human Resources Office, 2201 West Broad Street, Richmond, VA 23220 by 5:00 p.m., Monday, 2 March 1992. For more information telephone: 804-347-1820.

CHAIR

DEPARTMENT OF CLINICAL STUDIES (COMPANION ANIMAL)

SCHOOL OF VETERINARY MEDICINE

THE UNIVERSITY OF PENNSYLVANIA

The University is seeking a highly qualified individual to provide leadership for the Department of Clinical Studies in Philadelphia. The department includes 65 full-time faculty members and academic responsibility for a large companion animal teaching hospital. Candidates should have experience in administration and a commitment to excellence in research, service, and teaching. Nomination and application should be sent to: Dr. Mark Haskins, School of Veterinary Medicine, 3800 Spruce Street, Philadelphia, PA 19104-6044. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR DIABETES RESEARCH

We seek a Scientist (Ph.D.) with established record of productivity in diabetes-research, to develop a new lab as part of the University of Washington's diabetes program. The new lab will be part of Diabetes Education Center and inpatient diabetes unit. Applicants should be capable of independent research and also able to collaborate with clinical scientists. Located on Long Island, Western Connecticut State University is a 548-bed teaching hospital affiliated with SUNY at Stony Brook School of Medicine. Send curriculum vitae to: Ph.D. Search Committee, Department of Human Resources, Western Connecticut State University, 259 First Street, Mineola, NY 11501.

Junior College has a tenure-track BIOLOGY CHAIR position; specialty neurobiology/microbiology. Excellence of teaching and the ability to involve undergraduates in research are the department has attracted major grants from a Howard Hughes Medical Institute grant. Details for the 27 November or 4 December 1991 Chronicle of Higher Education. Contact: Dr. John Sander, Vice President and Dean of Academic Affairs, Juniata College, Hunting-

DAWN ON THE UNIVERSITY OF VERMONT, 16652, An Equal Opportunity/Affirmative Action Employer.

The University of Utah School of Medicine is seeking a CHAIRPERSON for the newly created Department of Neuroscience and Anatomy. The chairperson would be expected to: chair a search committee for the position; develop an innovative program to attract new faculty members; and organize the research program. Inquiries and curriculum vitae to: Dr. George P. Field, University of Utah Medical Center, 30 North Medical Drive, Salt Lake City, UT 84132. The position is subject to the approval of the University of Utah. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

Chairperson, CHAIRPERSON for the newly created Department of Neuroscience and Anatomy. The chairperson would be expected to: chair a search committee for the position; develop an innovative program to attract new faculty members; and organize the research program. Inquiries and curriculum vitae to: Dr. George P. Field, University of Utah Medical Center, 30 North Medical Drive, Salt Lake City, UT 84132. The position is subject to the approval of the University of Utah. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DIRECTOR FOR RESEARCH HEMATOLOGY/ONCOLOGY

Responsibility for coordinating research laboratory activities and integrating laboratory and clinical studies. Requirements include Ph.D. or M.D. degree plus a minimum of 10 years of research experience in which the applicant has demonstrated success both in obtaining individual national grant support and managing a scientific group in cancer research. Submit curriculum vitae and a letter of interest to: Frederick Valerio, M.D., Wayne State University (WSU), Harper Hospital, 3990 John R., 105 Brush South, Detroit, MI 48201. WSU is an Affirmative Action/Equal Opportunity Employer.

NORTHWESTERN UNIVERSITY

CHICAGO, ILLINOIS

SOLOVY-ARTHROPSIS

RESEARCH SOCIETY CHAIR

The Division of Arthritis–Connective Tissue Diseases is seeking to fill an exciting and accomplished investigator. We are seeking a Ph.D. or M.D. with interests in basic cellular and molecular immunology. The individual should qualify at the rank of SENIOR ASSOCIATE or FULL PROFESSOR. The position offers an opportunity to collaborate with basic and clinical scientists within an exciting environment. If interested, please send a statement of research interests and the names of three references to: Richard M. Pope, M.D., Department of Medicine, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Northwestern Univer-

DEPARTMENT HEAD CHEMISTRY AND BIOCHEMISTRY

Montana State University seeks nominations and applications for Department Head of Chemistry and Biochemistry. Requirements are a Ph.D. in chemistry, biochemistry or a related field and respected teaching record, evidence of a highly regarded research program, and proven administrative, communication, and leadership skills. The department Head is expected to promote excellence in teaching, research, and service; stimulate enhancement of undergraduate teaching and research; formulate a vision for the future of research programs; and perform limited teaching. Screening will begin 17 February 1992, and continue until the position is filled. Send letter describing how applicant's experience qualifies them for the position, along with a complete curriculum vitae, including full name, institutional address, and telephone number and five professional references. The University of Montana, Bozeman, MT 59717. MSU provides discrimination and affirmative action.

DEPARTMENT HEAD CHEMISTRY AND BIOCHEMISTRY

Montana State University seeks nominations and applications for Department Head of Chemistry and Biochemistry. Requirements are a Ph.D. in chemistry, biochemistry or a related field and respected teaching record, evidence of a highly regarded research program, and proven administrative, communication, and leadership skills. The department Head is expected to promote excellence in teaching, research, and service; stimulate enhancement of undergraduate teaching and research; formulate a vision for the future of research programs; and perform limited teaching. Screening will begin 17 February 1992, and continue until the position is filled. Send letter describing how applicant's experience qualifies them for the position, along with a complete curriculum vitae, including full name, institutional address, and telephone number and five professional references. The University of Montana, Bozeman, MT 59717. MSU provides discrimination and affirmative action.

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NEW ENGLAND BIOABS

Molecular Biology
and Biotechnology

Summer Workshop

WHEN:
Session I: May 31-June 13, 1992
Session II: June 17-June 30, 1992

WHERE:
Clark Science Center
Smith College
Northampton, MA

FACULTY:
Dr. Steven A. Williams
Dept. of Biological Sciences, Smith College,
Northampton, MA, and Program in Molecular and
Cellular Biology, University of Massachusetts

Dr. Molly Fitzgerald-Hayes
Dept. of Biochemistry and Program in Molecular
and Cellular Biology, University of Massachusetts

Dr. John McCarrey
Dept. of Genetics, Southwest
Foundation for Biomedical Research

Dr. Barton Slatko
New England Biolabs, Inc.

TO APPLY
for this workshop, please submit a recent curricu-

lum vitae and a one page statement of motivation to:

Dr. Steven A. Williams
Dept. of Biological Sciences
Smith College
Northampton, MA 01063

We are pleased to announce the seventh annual New England
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INTENSIVE BENCH EXPERIENCE: This intensive, two-week
course emphasizes hands-on molecular biology laboratory work.
About eight hours each day will be spent working at the bench. All
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EXPERIMENTS WILL INCLUDE: Purification of DNA, restric-
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FEE: $2,600 per participant includes lab manual, use of all equip-
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APPLICATIONS MUST BE RECEIVED BY March 1, 1992.
Notification of acceptance, wait-list, or rejection will be mailed by
March 6, 1992. Payment in full will be due by April 15, 1992. Your
application should include a C.V. and a one page statement of moti-
vation. Please specify the session to which you are applying and
indicate if you wish to be considered for the other session as a sec-
ond choice. Women and minorities are especially encouraged to
apply. For additional information, please contact Dr. Steven A.
Williams at (413) 585-3826.

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As a member of our Oncology Department, you will have the opportunity to carry out basic research in molecularly-oriented drug discovery programs. Retinoic acid receptors and tumor suppressor genes are specific areas of interest. To qualify, you must have a PhD in Molecular Biology or Biochemistry coupled with relevant research experience.

**VIROLOGY**
Your interest and expertise in molecular approaches to protein: DNA interactions, DNA replication, and/or virology, will allow you to select your specific project in the area of viral DNA replication (human papilloma virus). Supported by virologists, biochemists and crystallographers, your efforts in molecular biology will be directed toward the structure/function analysis of the proteins involved in viral DNA replication. Although the research will be fundamental in nature, publication of results is expected.

We offer a state-of-the-art research environment and a competitive compensation and benefits package. Publications are encouraged. For confidential consideration, please send your resume with references to: Mr. R.H. Stevenson, Assistant Director, Biotechnology Research, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

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**Cellular Immunologist**
M.D. or Ph.D. Cellular Immunologist at the Assistant or Associate level in the area of viral cellular immunology. Interested candidates should send their resumes to: Stephen J. Forman, M.D., Director, Department of Hematology and Bone Marrow Transplantation, City of Hope National Medical Center, 1500 E. Duarte Road, Duarte, California 91010. Phone: (818) 359-8111 X2403 – FAX (818) 301-8256.

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For an application or additional information, please contact: Dr. Walt MacDonald, Director, Advanced Placement Program, Educational Testing Service, Rosedale Rd., Princeton, NJ 08541. Educational Testing Service is an Equal Opportunity/Affirmative Action Employer and especially encourages minorities and women to apply.
Atmospheric Sciences Department Manager

The Atmospheric Sciences Department of Battelle, Pacific Northwest Laboratories is seeking a Department Manager to direct and manage the operational aspects of the department's activities.

The successful candidate will prepare departmental business programs; lead the development of major research programs and contribute as an active scientific/engineering leader; develop implementation plans for policies related to program evaluation, quality assurance, personnel evaluation and safety.

Ph.D. or MS degree in Atmospheric Sciences, Chemical Engineering, Meteorology, Mechanical or Environmental Engineering is required. Must also have 10 years of research experience and demonstrated technical competence by regular publication in peer-reviewed journals. 3 years, or more, of research management experience is desirable.

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Battelle, Pacific Northwest Laboratories, P.O. Box 1406, Dept. 6099-RJZ, Richland, WA 99352. FAX (509) 376-9099. We are an equal opportunity employer.

THE CHINESE UNIVERSITY OF HONG KONG

invites applications for the following newly created teaching positions in the Faculty of Medicine, tenable from August 1992:

Applicants should have relevant teaching and research experience. Those applying for post (1), (2) or (3) should possess a relevant higher degree, preferably a Ph.D., or its equivalent, or a medical qualification. Those applying for post (4) should have a relevant higher degree, preferably a Ph.D.

(1) Lectureship in Anatomy (Ref. 106/509/2/91)

Teaching experience in one or more of the following topics will be an advantage: histology, embryology, neuroanatomy and topographic anatomy. The Department of Anatomy is currently active in research programmes involving tissue culture techniques, immunocytochemistry, and transmission and scanning electron microscopy.

(2) Lectureship in Pharmacology (Ref. 107/509/2/91)

The appointee is expected to participate in teaching and research activities. The Pharmacology Department's research is concentrated on prostaglandins, anticoagulants, rheumatoid arthritis, vascular smooth muscle, asthma and pharmacokinetics.

(3) Lectureship of Physiology (Ref. 108/509/2/91)

The appointee is expected to participate in teaching and research activities. The Department of Physiology is currently actively engaged in research in epithelial transport mechanisms, muscle in physiology, renal and acid-base physiology as well as somato-sensory and neurophysiology.

(4) Lectureship in Biochemistry (Ref. 109/509/2/91)

Established skills in neurochemistry or food science or immunology will be an advantage.

Annual Salary
HK$309,120–350,700 by 2 increments BAR
HK$371,520–516,480 by 7 increments
(approx. exchange rate : £1 = HK13.9)
Starting salary will be commensurate with qualifications and experience.

Conditions of Service
The University offers a competitive remuneration package. For superannuable appointment, benefits include leave with full-pay, contributory superannuation scheme (University 15%, appointee 5%), medical and dental care, education allowances for children, housing benefit for an appointee with annual salary of HK$329,880 or above (with appointee contributing 7.5% of salary towards the provision of housing). Appointment may also be made on fixed term contract which carries equivalent benefits including a contract-end gratuity (15% of basic salary) in lieu of superannuable benefits. The University may also consider more flexible terms for suitable candidates.

Application Procedure
Send full resume in duplicate, giving full particulars, as well as names and addresses of 3 referees, together with copies of qualification documents (in duplicate) and recent publications to the Personnel Section, The Chinese University of Hong Kong, Shatin, Hong Kong (Fax: (852)603-5026) before February 1, 1992. Please quote the appropriate reference number and mark "Recruitment" on cover.

FRENCH "ACADEMIE DES SCIENCES" PROFESSORSHIPS

In order to foster international cooperation between academic and industrial research, the French Académie des Sciences, the Centre National de la Recherche Scientifique and Elf Aquitaine will open several one-year professorships in France for the 92-93 academic year.

These openings are reserved for research professionals, typically at the Associate to Full Professor level, and may be held in conjunction with a sabbatical leave. They include generous benefits, such as housing arrangements and travel expenses, depending upon the candidate’s experience.

The scientific domains involved cover Elf Aquitaine’s activities in oil, chemical and pharmaceutical research:

- Earth Sciences, with an emphasis on surface seismology, sedimentology, organic and mineral geochemistry and the physics of oil-related fluids, including rock interactions;
- Chemical Sciences, with an emphasis on polymers, halogen and hydrochemistry, heterogeneous catalysis including process engineering research;
- Life Sciences, with an emphasis on studies dealing with thrombosis, the cardio-vascular and central nervous systems.

Prearranged agreements with French academic laboratories are eligible for these professorships, and they will be appreciated although not mandatory.

There are no citizenship restrictions. Mastery of French is not required although some familiarity with French culture would be helpful.

Additional information can be obtained from the following contacts:
- For North America-based candidates:
  J. BODELLE, Vice President Research & Development
  Elf Aquitaine, Inc.
  1899 L Street, N.W., Suite 500
  Washington, DC 20036
- For other candidates:
  C. JABLON, Chief Scientist
  Elf Aquitaine, DRDI
  Tour Elf, Cedex 45
  92078 Paris-La-Defense, FRANCE

Formal applications should include a detailed résumé, a description of the research project and any other relevant information in order to select the most qualified candidates. They should be sent to the above addresses before February 15th, 1992. They shall be processed in confidence and the professorships are scheduled for announcement on April 30th, 1992.
POSITIONS OPEN

CANCER CENTER DIRECTOR

Bowman Gray School of Medicine of Wake Forest University seeks a leading physician-scientist to direct its Comprehensive Cancer Center. A strong clinical program with regional research network and basic sciences core laboratories are prominent features. Minority and women candidates are especially encouraged. Wake Forest is an Affirmative Action/Equal Opportunity Employer. Reply to: William R. Hazzard, M.D., Medical Center Boulev., Winston-Salem, NC 27157-1052.

PROFESSOR AND HEAD OF DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY

Applications and nominations are solicited for the position of Professor and Head of the Department of Physiology and Pharmacology, Auburn University College of Veterinary Medicine. The department includes 12 tenure-track faculty members, has active programs of teaching, research and graduate education, and interacts extensively with other units of the university. The appointee will be expected to have a strong record of research and teaching accomplishments, with leadership and administrative abilities. Candidates should have the Ph.D. or other relevant research experience and be able to contribute to undergraduate and graduate programs, and be committed to the future trends in veterinary medical education and faculty development.

Applications and nominations should be sent to: Dr. Ray Dillon, Search Committee Chair, Scott-Ritchie Research Center, College of Veterinary Medicine, Auburn University, AL 36849. Telephone: 205-844-5951; FAX: 205-844-5850. Auburn University is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

PHYSICIST/BIOPHYSICIST

A position is available for a candidate to join a team of scientists in designing and developing and implementing a radiation health protection program for Space Station Freedom. The successful candidate will work with scientists and engineers to develop and improve radiation risk assessment, to support space flight and computer tasks, and to contribute to technical reports. Opportunities exist for collaborative interactions with, and participation in ongoing national and molecular radiobiology research programs at NASA/Johnson Space Center.

This position requires a Ph.D. in physics or biophysics or an M.S. degree in physics with experience in radiation health physics, computer programming and modeling. A background in radiation physics, radiobiophysics and computer modeling is preferred.

Interested applicants should submit current résumé, a list of references, and salary history indicating position number 91T-33-01 to: Dr. R. A. Haskins, KRG Life Sciences Inc., P.O. Box 59827, Houston, TX 77258-8227, Attention: June E. Richmond, Human Resource Manager. An Equal Opportunity Employer, M/F/H/V. Smoke-free workplace preferred.

THREE POSITIONS, VERTEBRATE ZOOLOGY (prefer ornithologist or herpetologist). BOTA-NIST/PLANT TAxONOMIST and WETLAND SCIENTIST needed by full-services environmental consulting firm. Applicants should have advanced technical skills and research capabilities for: studies of endangered species (experience with Section 7, Endangered Species Act), wetland delineation certification, (2) competitive recruitment and management; multidisciplinary NEPA studies (EA and EIS); managing large field studies; report and proposal writing; and coordination with federal and state agencies. Ph.D. preferred. Send résumé and materials to: Dr. Virgil Brack, Jr., 3D/ESI, 781 Neerb Road, Cincin-nati, OH 45233. Telephone: 513-922-8199; FAX: 513-922-9150.

POSITIONS OPEN

VICE CHANCELLOR AND DEAN
GRADUATE STUDIES AND STUDENT ACADEMIC AFFAIRS

UNIVERSITY OF CALIFORNIA SAN FRANCISCO

The University of California, San Francisco (UCSF), invites nominations and applications for the position of Vice Chancellor Deans, Graduate Studies and Student Academic Affairs.

UCSF is the only one of nine campuses of the University of California that is devoted solely to the health sciences, and includes schools of dentistry, medicine, nursing, and pharmacy, and a graduate division. In addition to offering advanced degrees in the health professional schools, there are 12 doctoral programs in the biological and social and behavioral sciences related to human health.

Responsibilities: As Dean of Graduate Studies: provide strong leadership for graduate programs in the four schools; oversee administration of all matters concerned with the academic progress and general welfare of graduate students; coordinate long-range planning in graduate education and development of new programs; develop and administer policies and services for postdoctoral research training.

As Vice Chancellor, Student Academic Affairs: coordinate student Affirmative Action programs, including recruitment and retention of students from traditionally underrepresented groups; design and develop academic support services to the schools and graduate division, including admissions and registrar, student financial aid, services to international students and scholars.

Qualifications: Applicants or nominees must hold a Ph.D. or similar degree, with experience and qualifications. Evidence of scholarly achievement in teaching and research is required. Proven leadership ability in the administration of graduate and postdoctoral education is essential. The successful candidate must be eligible for faculty appointment and tenure, with the opportunity to continue an active research program.

Salary: Negotiable and commensurate with qualifications.

Position open: 1 July 1992. Consideration of applications will begin 15 February 1992. Letters of application or nomination, with complete curriculum vitae, bibliography, and names of three references should be sent to:

Ms. Janice Babula
Search Committee Chair
Box 0400
University of California
San Francisco, CA 94143-0400

UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION available immediately for recent Ph.D. with training in neurobiology to study brain transplantation of genetically engineered cells in animal models of Parkinson's disease. Experience in stereotaxic surgery and cell culture preferred. Send curriculum vitae with names of three references to: Dr. Martha Rohn, Department of Neurobiology and Anatomy, Box 603, University of Rochester Medical Center, Rochester, NY 14642.

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POSITIONS OPEN

PLANT ECOLOGY. The Ecology and Evolutionary Biology Department at Rice University seeks to fill a HUXLEY RESEARCH INSTRUCTORSHIP. This is a 2-year appointment for a recent Ph.D. for research and teaching. Preference will be given to candidates with research interests in plant population, community, or physiological ecology, ecological modeling, or global change. The Committee is a one-semester junior-level botany or ecology course. Applications, including curriculum vitae, a summary of research and teaching interests, and three letters of reference, are to be sent to: P. A. Harder, Evolutionary Biology Department, P.O. Box 1892, Houston, TX 77251 by 15 February 1992. Rice University is an Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL POSITIONS IN MOLECULAR PLANT PATHOLOGY. One position, which is available immediately, is to clone a gene that influences the response of Arabidopsis to the black rot pathogen, Xanthomonas campestris pv. campestris, by chro-mosome walking. The second position, available 1 April 1992, is both to genetically analyze barley mutants with altered resistance to the powdery mildew pathogen and to analyze closely related Ml-a resistance. Applicants with training in genetics or molecular genetics will be given preference. Send curriculum vitae, the names of three references, and a statement of research interests to: Dr. Shanna Somerville, DOE Plant Research Laboratory, Michigan State University, East Lansing, MI 48824; FAX: 517-353-9181; PHONE: 517-353-9168. Michigan State University is an Equal Opportunity/Affirmative Action Employer.

NEUROANATOMIST

Neuroanatomist to join neuroscience laboratory pursuing studies of molecular biology of novel neuronal and glial receptors and transmitters. POSTDOCTORAL/RESEARCH ASSOCIATE position, level is up to the candidate's preference. Please send curriculum vitae and bibliography to: D. J. Rei/K. Koenig, Division of Neurobiology, Cornell Medical College, 11 East 69th Street-KB410, New York, NY 10021. Equal Opportunity/Affirmative Action Employer, M/F/H/V.

One POSTDOCTORAL POSITION with fellowship stipend is available immediately in the Harvard/MIT Division of Health Sciences and Technology (HST) at Massachusetts Institute of Technology. The primary goal is to explore and to develop new strategies of genetic manipulation of mammalian cells with broad potential applications for cell and gene therapy. Candidates should have a Ph.D. and/or M.D. with background in molecular genetics including experience in complex recombination mechanisms. Ph.D. and Cell Biology, Molecular Biology and Cell culture and transfection. Send curriculum vitae, description of research interest and career goals, and names of three references by 31 January 1992 to: Dr. Elizabeth C. Boyce, HST Division, Massachusetts Institute of Technology, Cambridge, MA 02139.

POSTDOCTORAL POSITION

A postdoctoral position is available immediately to study the structure, expression, and regulation of mannosidase genes involved in eukaryotic protein glycosyla-tion. Expertise in the area of molecular biology is essential. Interested candidates should send curriculum vitae, and names and telephone numbers of three references to: Dr. Michael C. Cook, Dept. of Biochemistry, 3655 Drummond Street, Montreal, Quebec, Canada H3G 1Y6. FAX: 617-398-3533.

POSTDOCTORAL FELLOWSHIP, CENTER FOR IMAGING AND PHARMACEUTICAL RESEARCH. A research position in the area of imaging of cerebrovascular and neurotransmitter perturbations in disease. Skills required: small animal surgery, in vivo applications of a variety of imaging techniques. The Neurosciences Applications Group in the center is currently exploring the use of in vivo imaging techniques to study mechanisms of cerebral insult and recovery. Our center comprises a multidisciplinary group of scientists that include neuroscientists, pharmacologists, radiologists and biostatisticians. Position available immediately. Send curriculum vitae, and names and telephone numbers of three references to: Peter J. H. Ho, Center for Imaging and Pharmaceutical Research, Massachusetts General Hospital and Harvard Medical School, MGH-East Building 149, 13th Street, Charlestown, MA 02129.
Research at the Glaxo Institute in Geneva is focused on discovering the molecular mechanisms of diseases of the CNS, allergies and inflammatory conditions. We have an outstanding opportunity for a

NEURO-IMMUNOLOGIST
to study the role of the immune system in diseases of the Central Nervous System

The successful applicant will have a key role in a new research programme directed towards understanding the role of immune and inflammatory responses in neuro-degenerative diseases. Candidates are expected to have several years of relevant post doctoral experience and a proven track record of research in the immunology of the CNS.

The Institute provides a dynamic international research environment and actively encourages collaborative projects with academic groups as well as the publication and presentation of results at scientific meetings. The Glaxo Institute is part of the Glaxo group, one of the world’s most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

We offer an excellent compensation and benefits package and significant opportunities for career development. Geneva, situated in a very attractive part of Europe, has many advantages as a place to live.

If you are interested in this position, please send your curriculum vitae with a list of publications and the names of three referees to: Rita Gloor, Personnel Manager, Glaxo Institute for Molecular Biology, 14, chemin des Aulx, 1228 Plan-Les-Ouates, Geneva, Switzerland.

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**The University of ILLINOIS at Urbana-Champaign**

Announces a Major Expansion in Molecular Neurobiology

Receipt of a major grant from the Lucille P. Markey Charitable Trust will provide funding for several positions in molecular neurobiology, with an emphasis upon molecular mechanism of neural development and plasticity, over the next several years.

We plan to fill two positions (rank open) for fall 1992 or as soon as is practical thereafter. Qualifications should be appropriate for tenure or tenure track positions. Candidates will be appointed primarily in the Departments of Cell and Structural Biology and Biochemistry, although appointments may be made in other departments. Substantial funds are available for laboratory start-up and research. The University has a strong interdisciplinary Neuroscience Program with strengths in neural development and plasticity and growing strength in cellular and molecular neuroscience. In addition to the interdisciplinary resources of the Beckman Institute (which may house the candidates’ laboratories), the University of Illinois is home to the NSF-funded National Center for Supercomputing Applications, a Biotechnology Center that provides a number of subsidized services including production of oligonucleotides, peptides and monoclonal antibodies, molecular graphics, fluorescence activated sorting, protein sequencing and transgenic animal facilities.

Salary is commensurate with experience and qualifications. Minorities and women are particularly encouraged to apply. Applications (vita, 1-2 representative reprints, and a statement of research interests) and three letters of recommendation should be sent no later than March 1, 1992, to:

William T. Greenough, Chair, Molecular Neuroscience Search Committee  
University of Illinois at Urbana-Champaign, Beckman Institute  
405 N. Mathews, Urbana, Illinois 61801  
Tel. (217) 333-6118

We may interview some candidates before the application deadline of March 1, but all applications received by that date will receive full consideration.

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<th>DESCRIPTION</th>
<th>ISSUE DATE</th>
<th>SIZE</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-15</td>
<td>Landsat Image of Eastern Mojave Desert</td>
<td>25 May 1990</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
<tr>
<td>P-14</td>
<td>Tolerance in the Immune System</td>
<td>15 June 1990</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
<tr>
<td>P-13</td>
<td>The Human Map</td>
<td>12 October 1990</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
<tr>
<td>P-12</td>
<td>Pistil and Stamen from Snapdragon</td>
<td>16 November 1990</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
<tr>
<td>P-11</td>
<td>Atmospheric Layering on Earth’s Edge</td>
<td>10 February 1989</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
<tr>
<td>P-10</td>
<td>Caterpillar/You Are What You Eat</td>
<td>3 February 1989</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
<tr>
<td>P-09</td>
<td>Moons of Uranus</td>
<td>9 September 1988</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
<tr>
<td>P-06</td>
<td>Neurons in Motor Cortex</td>
<td>26 September 1986</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
<tr>
<td>P-05</td>
<td>Cathedral Window/DNA Molecule</td>
<td>23 December 1983</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
<tr>
<td>P-03</td>
<td>Cheetah and Cub</td>
<td>29 July 1983</td>
<td>18&quot; X 24&quot;</td>
<td></td>
</tr>
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The Vice President for Research and Dean of The Graduate School is a senior central administrative position with broad responsibilities for stimulating and facilitating graduate education, research, and scholarly activity throughout the University. The Vice President administers the Office of Research and Sponsored Programs, which manages a large and growing funded research program. The Vice President also supervises the technology transfer program and the Office of Research Services Administration which is responsible for the research infrastructure. The Vice President fosters interdisciplinary initiatives and oversees most major research centers. As Dean of The Graduate School the Vice President oversees more than 80 advanced degree programs enrolling approximately 2500 graduate students. The Vice President serves as a member of the President's staff and of the Dean's Council. For full consideration, nominations and applications should be sent by February 1, 1992, to:

Professor Thomas D. Cook  
Chair, Search Committee  
Northwestern University  
2040 Sheridan Road  
Evanston, Illinois 60208

Northwestern University is an Equal Opportunity/Affirmative Action Employer and Especially Welcomes Applications from Women and Minorities.

Assistant Investigator

Support advances in Genetics Research. The New York Blood Center concentrates major scientific effort, talent and resources on integral studies in human genetics.

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Please send curriculum vitae and letter detailing your professional interest and goals to: The New York Blood Center, Dr. Nathan Ellis, 310 East 67th Street, New York, NY 10021. Equal opportunity employer M/F/H/V.

New York Blood Center

Where concern for the community comes first

Chair, Pharmacology Department

St. Jude Children's Research Hospital, a private research institute, is recruiting a new chairperson for its established Department of Pharmacology. The appointee will be expected to lead an internationally recognized program in his/her area of interest and to shape the future direction of research within the institution, through faculty recruitment and by contributions to the institution's overall scientific leadership, as a member of the Institution's Executive Committee. The Institute is currently undergoing major expansion, and has recently occupied a new 240,000 sf research tower, where substantial laboratory and office space has been reserved for the pharmacology chair. The Department currently has 9 faculty, all of whom are NIH funded investigators, and the new chair will be expected to recruit additional faculty. The current departmental budget is approximately $3 million. The Department interfaces with established basic science programs in Virology and Molecular Biology, Biochemistry, Immunology, and Tumor Cell Biology, and established clinical research programs in Hematology/Oncology, Pharmaceutical Sciences and Infectious Diseases. Appointment to the University of Tennessee graduate faculty is also possible. The Chair's salary will be provided through committed endowment funds, together with additional resources commensurate with the needs of a dynamic and productive individual.

Applicants should submit a curriculum vitae and the names and addresses of four references to: Dr. William E. Evans, Chair, Pharmacology Search Committee, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, Tennessee 38105

St. Jude Children's Research Hospital is an Affirmative Action/Equal Opportunity Employer

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For application materials contact:

Global Change Postdoctoral Fellowships Science/Engineering Education Division Oak Ridge Associated Universities P.O. Box 117 Oak Ridge, TN 37831-0117 (615) 576-4805
POSTDOCTORAL POSITION

Available immediately to study the molecular biology of the bombesin-like peptides. Projects include cloning of new mammalian bombesin-like peptides, their receptors and enzymes involved in signal transduction. Send curriculum vitae and names of three references to: B. K. Roufogalis, Department of Immunology, Oregon Regional Primate Research Center, 505 N.W. 185th Street, Beaver, OR 97006. An Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL POSITIONS IN MOLECULAR GENETICS: (1) Study the molecular genetics of abnormal development and the demethylation of lipoprotein structure [Nature 353, 265 (1991); PNAS 88, 434 (1991)]. (2) Develop models for disorders of globin gene function. Send curriculum vitae and names of three references to: Dr. S. McCaffrey, Department of Hematology, Oregon Health Sciences University, Portland, OR 97239. An Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to study the molecular population genetics of primates. The New York Consortium in Evolutionary Primatology (NYCEP), consisting of 22 faculty from City University of New York, Columbia University, New York University, The American Museum of Natural History (AMNH), and Wildlife Conservation International (NYWS), invites applications to join a team using molecular genetic techniques (including RFLP analysis, PCR amplification, and restriction fragment length polymorphism footprinting) to elucidate (1) the effects of behavior and demography on population structure in primates, and (2) primate phylogeny and systematics. Send a cover letter, mention work primarily with Dr. D. M. MacLarnon (Columbia University) or Dr. Clifford Jolly (New York University), for a 1-year start in 1992. Applicants should have laboratory experience and the Ph.D. in hand before start date. Salary and benefits are competitive. Send curriculum vitae, a one-page statement of research interests and names, addresses and telephone numbers of three references, by 1 February 1992 to: Dr. Edna Deason, Vertebrate Paleontology, AMNH, New York, NY 10024. An Equal Opportunity/Affirmative Action Employer. (This ad superseded ad of 6 and 20 December)

POSTDOCTORAL POSITION

Available immediately to study signal transduction pathways by which proinflammatory cytokines stimulate hepatic expression of the serum amyloid A gene family during inflammation. Send curriculum vitae and names of two references to: Dr. Ada L. Sharer, Department of Biochemistry and Molecular Biology, University of Alabama at Birmingham School of Medicine, Birmingham, AL 35294. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to investigate signal transduction pathways which are essential to phagocyte signaling processes, which include recognition of pathogen-associated molecular patterns and innate immune responses. Send curriculum vitae and names of three references to: Dr. Stephen E. Whitesell, Department of Microbiology and Immunology, Oregon Health Sciences University, Portland, OR 97239. An Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to study the molecular and cellular biology of arteriosclerosis and its relation to diabetes. Applicants should have a Ph.D. and at least one year of postdoctoral experience in the field of cellular biology. Send curriculum vitae and three letters of reference to: Dr. B. K. Roufogalis, Department of Immunology, Oregon Regional Primate Research Center, 505 N.W. 185th Street, Beaver, OR 97006. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL SITUATION

Applicants are invited for positions in a multidisciplinary research group studying the biochemistry of inorganic pollutants in the aquatic environment. Current topics include: (a) the role of bacteria in the biodegradation of organics, and (b) the processes involved in the retention and bioavailability of persistent organic pollutants in the marine environment. Send curriculum vitae, names of three references, and a brief statement of research interests and experience to: Dr. R. G. C. Campbell, R. Carignan, L. F. Cartier, A. Tessier, C.P. 7500, Sainte-Foy (Quebec), GI7 4C7, Canada.

POSTDOCTORAL POSITION

Available immediately to study the molecular biology of the bombesin-like peptides. Projects include cloning of new mammalian bombesin-like peptides, their receptors and enzymes involved in signal transduction. Send curriculum vitae and names of three references to: B. K. Roufogalis, Department of Immunology, Oregon Regional Primate Research Center, 505 N.W. 185th Street, Beaver, OR 97006. An Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL ECOLOGISTS to study mechanisms controlling dynamics and structure of the grasslands of Cedar Creek Natural History Area. Potential areas of study include: population and water competition, biodiversity, ecophysiology, or soil nitrogen dynamics. To apply, by 2 March 1992, submit curriculum vitae, statement of research interests, reprints, and three letters of reference to: Dr. Chun-Fang Wu, Department of Biology, University of Iowa, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available winter or spring 1992 for the study of the radiobiology of radiomunotherapy, growth factors and the molecular biology of radioresistance and other related topics. Experience in tissue culture, immunology, molecular biology and small animal handling is desirable. Salary negotiable, commensurate with experience. Send curriculum vitae and names of three references to: Susan J. Knox, M.D., Ph.D., Department of Radiation Oncology, University of Alabama School of Medicine, Stanford, CA 94305. An Equal Employment Opportunity. Aスポ少数名族に開かれる。 Send curriculum vitae and names of three references to: Susan J. Knox, M.D., Ph.D., Department of Radiation Oncology, University of Alabama School of Medicine, Stanford, CA 94305. An Equal Employment Opportunity.

TWO POSTDOCTORAL POSITIONS

Available immediately to participate in two NIH-funded projects in regenerative medicine: (1) the role of extracellular matrix molecules in normal and pathological tissue repair; and (2) tissue repair after thermal injury. These projects will employ (1) extended studies [J. Immunol. 146, 2609 (1991)] to determine subcellular mechanisms responsible for neutrophil dysfunction (Dr. A. Bjornson) and (2) characterize alterations of cytokine production and other functional responses of macrophages (Dr. S. Somers). Our program offers the opportunity to apply fundamental knowledge in cell biology to an area of clinical importance. Compensation includes stipend of $28,000 to $32,000 (dependent on experience) and research support. Send curriculum vitae, summary of research experience and names of three references to: Dr. Bjornson or Somers, c/o: Division of Biology, M. G. Sharp, N. Garvan Institute of Medical Research, 2124 Auburn Avenue, Cincinnati, OH 45219. An Equal Employment Opportunity.

POSTDOCTORAL POSITION

Applicants are invited for positions in a multidisciplinary research group studying the biochemistry of inorganic pollutants in the aquatic environment. Current topics include: (a) the role of bacteria in the biodegradation of organics, and (b) the processes involved in the retention and bioavailability of persistent organic pollutants in the marine environment. Send curriculum vitae, names of three references, and a brief statement of research interests and experience to: Dr. R. G. C. Campbell, R. Carignan, L. F. Cartier, A. Tessier, C.P. 7500, Sainte-Foy (Quebec), GI7 4C7, Canada.

POSTDOCTORAL POSITION

Avail
DEPARTMENT
OF BOTANY
University of British Columbia

The Department of Botany at The University of British Columbia is seeking applications to fill two tenure track positions. The first is in the area of Departmental Botany. Preference will be given to individuals employing a variety of approaches (molecular, genetic, cytological) to fundamental problems in plant development. The second is for a Bryologist, Phycologist or Mycologist whose research interests emphasize biodiversity, systematics, evolution or evolutionary ecology.

Candidates for these positions must have a Ph.D. degree and published evidence of research ability. The expected date of appointment is July 1, 1992 (or as negotiated). Application deadline is February 29, 1992 or until such time as suitable candidates are identified.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. UBC encourages qualified women and minority applicants. The position is subject to final budgetary approval. Applicants should send a curriculum vitae, selected reprints, a statement of research interests and have at least three letters of reference sent to:

Dr. David H. Turpin, Head
Department of Botany
University of British Columbia
#3529 - 6270 University Blvd.
Vancouver, B.C. CANADA, V6T 1Z4

CELL BIOLOGIST/BIOCHEMIST
G Proteins

We seek a Cell Biologist/Biochemist with experience in G protein coupled signal transduction. This individual will be part of an interdisciplinary team dedicated to the discovery of novel cancer chemotherapeutic agents. Active collaboration within this research team and with other teams inside and outside the Company is required.

Background must include a Ph.D. or M.D. with a minimum of 3 years relevant post-doctoral experience. Experience in the application of molecular biology to cell biology and biochemistry is desirable. Join Glaxo and enjoy an excellent salary, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction. Equally appealing is our world famous scientific, industrial and academic community in Research Triangle Park, NC. Send your resume, including salary history, to: Human Resources Department, Job #9125817-SC, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/H/V.

Glaxo Inc.

Saskatchewan Cancer Foundation
Saskatoon Cancer Centre
Saskatoon, Saskatchewan

CANCER RESEARCH SCIENTIST

The Cancer Research Unit of the Saskatchewan Cancer Centre is seeking a research scientist with interest in the cancer field and experience in the area of molecular biology, in particular with respect to gene cloning. The Research Unit currently has six research scientists with interests in the areas of tumor metastasis, tumor markers, anticancer drugs, and signal transduction. The Unit is housed in the Saskatchewan Cancer Centre which contains over 1000 m² of new laboratory space. Initial operating funds, as well as funds for major equipment and support services, are available. Initial funding for this position is provided by a Terry Fox Regional Development Grant from the National Cancer Institute of Canada. Successful candidates will also receive an appointment at the University of Saskatchewan at a rank commensurate with their level of experience. Candidates with a Ph.D. or M.D. degree and at least two years of postdoctoral training are encouraged to apply by submitting a curriculum vitae, description of research interests and names of three references to: Dr. S. A. Carlsen, Director of Research, Saskatchewan Cancer Centre, 20 Campus Drive, Saskatoon, Saskatchewan, Canada S7N 4H4. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

The closing date for this competition is February 28, 1992.
GRADUATE FELLOWSHIP IN PLANT SCIENCE

PHYTOTECHNOLOGY RESEARCH CENTER
MICHIGAN TECHNOLOGICAL UNIVERSITY

Applications are invited for graduate fellowship in Phytotechnology, a program involving chemistry, biological sciences and forestry. The fellowship is funded by the USDA National Needs Program and is restricted to U.S. citizen. Interested students should send Graduate Fellowships Application Forms, three letters of recommendation and statement of purpose to: Dr. Pushpa Murthy, Chemistry Department, Michigan Technological University (MTU), Houghton, MI 49931. Telephone: 906-487-2094. MTU is an Equal Opportunity Education Institution/Equal Opportunity Employer.

GRADUATE FELLOWSHIPS CENTER FOR THE STUDY OF EVOLUTION AND THE ORIGIN OF LIFE (CSEOL)

UCLA

From the origin of the cosmos, to the beginnings of life, to the advent of Homo sapiens.

CSEOL invites applications for five graduate fellowships for 1992-93. In addition to support provided by UCLA departments, CSEOL will grant each fellow a stipend of $5000 per year, for each of the first 2 years of graduate study, with no teaching or other duties. Fellowships are granted to a select group of graduate students interested in working with CSEOL faculty in a subject area relating to virtually any aspect of evolution—of the cosmos, of the solar system, of Earth, of the environment, of life, of humans. Areas of particular interest for 1992-93 include: biochemical evolution and molecular phylogeny; the origin and early history of life; and interrelated environmental-biotic evolution. Faculty are members of the UCLA Departments of Anthropology, Astronomy, Atmospheric Sciences, Biology, Chemistry and Biochemistry, Computer Science, Earth and Space Sciences, Geography, and Microbiology; the School of Medicine; the School of Public Health; the Institute of Geophysics and Planetary Physics; and the Molecular Biology Institute. Fellowship applicants must apply (preferably by 15 January 1992) both to an appropriate academic department and to CSEOL. For application information and to obtain a list of CSEOL members, contact:

CSEOL Fellows Committee
Geology Building, Room 5687
University of California, Los Angeles
Los Angeles, CA 90024
Telephone: 310-825-1170
FAX: 310-825-0097

RESEARCH SCIENTIST is sought for a tenure-track position as ASSISTANT OR ASSOCIATE PROFESSOR in the Department of Surgery at the University of Medicine and Dentistry of New Jersey (UMDNJ)—Robert Wood Johnson Medical School. A cell/molecular biologist with an interest in integrins, adhesion molecules and endothelial cell interactions is sought to be Director of a fully equipped laboratory which includes cell sorting flow cytometry. The Department of Surgery consists of more than 30 full-time faculty, of whom 8 are Ph.D.'s. There is the likelihood of collaboration with basic scientists with specific interests in these areas. Starting Salary and benefits are competitive and the basic science resources in a 20 mile radius are outstanding. Qualified applicants should send a letter of interest with vitae to: Ralph S. Greco, M.D., Professor and Chief, Division of General Surgery, UMDNJ—Robert Wood Johnson Medical School, CN 19, New Brunswick, NJ 08903-0019.

The UMDNJ is an affirmative action/equal employment opportunity employer, M/F/H/V, and a member of the University Health System of New Jersey.

University of Medicine and Dentistry of New Jersey

POSTDOCTORAL RESEARCH FELLOWSHIPS IN ENDOCRINOLOGY

The Endocrine Research Unit, Mayo Clinic, has openings in an NIH-funded postgraduate training program for qualified M.D. and Ph.D. candidates. Twelve NIH-supported fellowships are available in basic studies, as well as diagnostic and clinical applications, of diabetes with emphasis on metabolism (P. Butler, M. Jensen, J. Miles, R. Rizza, F. Schwenk, and J. Service), bone/calcium metabolism (L. Fitzpatrick and L. Raggio), growth factor receptors (S. Cohen), thymus factor stimulating hormone (J. Morris), Grave's ophthalmopathy (R. Bahn) and control of gene expression (N. Eiberhard and D. Tindall). The programs provide excellent training experiences in very well equipped laboratories investigating molecular, cellular and organ level endocrinology. NIH stipends are supplemented according to standard Mayo policy. Applications are made for a minimum 2-year period with maximum support up to 3 years. Candidates must be U.S. citizens or have resident alien status. Mayo is an Equal Opportunity Employer. Interested individuals should contact:

Norman L. Eiberhard, Ph.D.
4-407 Alfred
Mayo Clinic
Rochester, MN 55905
Telephone: 507-255-6554

SUPERVISORY MICROBIOLOGIST: Brucellosis Research Unit, National Animal Disease Center, Ames, Iowa.

ARS is seeking a supervisory microbiologist to lead a group of five scientists in research on bovine immune responses to Brucella spp. Position involves supervision and coordination of plans of molecular biology and pathology units. Knowledge of advanced immunologic techniques, cell culture, and cell genetics is required. Experience with radiation or radiation-based techniques is desirable. Ph.D. and D.V.M. are desirable. Must be U.S. citizen. Salary is commensurate with experience ($46,210 to $83,502 per annum). For information on the research program and position, contact: Dr. Norman Cheville, telephone: 515-239-8204. For information on application procedures/forms, contact: Jamie Carse, telephone: 319-344-1288. Applications in response to this advertisement should be marked 2N018. Applications must be postmarked by 3 February 1992. Mailing address: USDA, ARS, Personnel Operations Branch, Room 325, 6305 Ivy Lane, Georidel, MD 20770.

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CELL AND MOLECULAR BIOLOGY OF AGING POSTDOCTORAL RESEARCH TRAINING

Positions are available for postdoctoral trainees in cell and molecular biology of aging at Baylor College of Medicine in the laboratories of Drs. Julius Allen, Stanley Appel, Eugene Barnes, Gretchen Darlington, Stephen Foster, and Neil S. Greenberg. Applicants should be U.S. citizens, Permanent Residents, or have obtained a Ph.D. by May, 1992. Applications should be submitted to: Dr. Gretchen Darlington, Department of Biology, BCM, 1515 Holcombe Blvd., Houston, TX 77030.

PROJECT SCIENTIST, BIOMEDICAL ENGINEERING AND APPLIED THERAPEUTICS: Research and development to improve the regulation of human metabolic, immune and biochemical disorders for treatment of related diseases, including blood purification by membrane filtration and sorption. Research and development techniques for immunologic and respiratory support, including membrane oxygenation and carbon dioxide removal in blood. Research and develop techniques to separate infected and differentiated cells from normal and aged cells; the role of calcium in cell proliferation; receptor and ion channel alterations in aging; cell cycle genes and program of mortality. Applicants must be citizens of the United States. Send curriculum vitae and three reference letters to: Dr. Gretchen Darlington, Huffington Center on Aging, Room M-320, Baylor College of Medicine, Houston, TX 77030.
THE HONG KONG UNIVERSITY
OF SCIENCE AND TECHNOLOGY
Professor & Head of Department of Biology

The Hong Kong University of Science & Technology is a newly established university funded by the Hong Kong Government. Enrolment is expected to grow to 10,000 students by the end of this decade.

The Department of Biology provides undergraduate and postgraduate education (including Ph.D.) in a wide range of biological sciences, with special research emphasis on molecular genetics, cell biology, developmental biology and neurobiology. The Department is also closely associated with an on-campus Biotechnology Research Institute, which is actively engaged in (1) Genetic engineering & molecular pharmacology, (2) Molecular immunology, (3) Biomedical instrumentation & modeling, and (4) Industrial and agricultural bioengineering.

The Department is equipped with modern biological research facilities. The salary scale is highly competitive in comparison with most North American universities, with generous fringe and housing benefits.

The University is searching for an accomplished scientist to fill the position of Head and Professor for the Department of Biology. Candidates should have extensive teaching and research experience. Besides being a recognized scholar, the selected Head should also possess personal qualities that would enable him/her to interact well with others and to successfully lead the Department in its multifaceted functions.

Please send all nominations and applications to the Chairman of Search Committee, Prof. Nelson C. H. Lee, Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong (Tel No. 852-358-7506, Fax No. 852-358-1652) before March 1, 1992.

TWO SENIOR SCIENTISTS

Immunomedics, Inc., a biopharmaceutical company using monoclonal antibodies for imaging and therapy of cancers and infectious diseases, has immediate openings in our R&D department. Each position requires creative and independently working individuals.

Ph.D. Chemist/Radiochemist to join our development group for monoclonal antibody conjugates. We require a highly self-motivated individual who would enjoy the challenge and reward of developing agents from conception through clinical evaluation. The ideal candidate would also have experience in technetium chemistry.

M.S./Ph.D. Scientist with 2-5 years experience in protein isolation, purification and characterization. We are especially interested in candidates with working knowledge of monoclonal antibody technology and an immunology background.

Send resume and job history to:
Immunomedics, Inc.
Human Resource Department
150 Mt. Bethel Road
Warren, NJ 07059

EOE/AA
Children are our greatest hope. Their education is our greatest concern.

At the American Association for the Advancement of Science we're investing in our future with Project 2061. This national program, sponsored by the AAAS, is designed as a blueprint for science education. Project 2061 is based on the premise that students learn best when connections are made between fundamental scientific theories and real-life applications. From rural Georgia to San Francisco; from Philadelphia to suburban Wisconsin, the AAAS is working with teachers to design the science curriculum of the future.

Although just a beginning, AAAS and its members are not only dedicated to the advancement of science today, but through Project 2061 and other educational programs, to the continual advancement of science in years to come.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
MacroNex, a newly-emerging drug discovery and research company located in the Research Triangle area of North Carolina, is positioning itself to be a world leader in developing human therapeutics based on the physiological regulation of macrophages. We currently have openings available for the following key professionals.

MACROPHAGE BIOLOGISTS

Successful candidates will have a Ph.D. degree with a minimum of 3+ years experience in cell biology, immunology, or a related area. Experience in bioassays for monocyte/macrophage function is required; experience in immunomodulation development and the measurement of cytokines is desired. We seek energetic, highly-motivated individuals who possess excellent interpersonal skills. Selected individuals will be part of a team of 3-5 scientists.

Refer to Job # 105 on all resumes.

CELL/MOLECULAR BIOLOGIST

The successful candidate will have a Ph.D. degree with a minimum of 3+ years experience in cell or molecular biology or a related area. Experience in working with monocytes/macrophages of human or murine origin is required; experience in the study of receptor coupling and gene activation is highly desired. Preference will be given to candidates experienced in molecular biology techniques, particularly the isolation of RNA and Northern blotting.

Refer to Job # 103 on all resumes.

We offer competitive salaries and benefits including employee stock participation. Candidates interested in either of the above positions should send their resume, indicating the corresponding Job #, and CV with names, addresses and phone numbers of three references, to: MacroNex, Inc., Suite 700, 120 Southcenter Court, Morrisville, NC 27560.

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POSTDOCTORAL SCIENTISTS

Stratagene is looking for exceptional postdoctoral candidates.

Research experience required in Molecular Biology especially with bacteriophage vectors, PCR strategies, and DNA library cloning. Preference will be given to innovative individuals that also have some expertise in protein structure and/or immunology. The research area is the use of cutting-edge molecular biology techniques in immunology leading to human therapeutic applications (see Science 246, 1275-1281 (1989); and Proc. Natl. Acad. Sci. (USA) 87, 8055-8099 (1990)).

Publication in referred journals and attendance at national scientific meetings will be strongly encouraged. This position offers a competitive industrial postdoctoral salary and may lead to a full Staff Scientist position. Stratagene offers an attractive and stimulating work environment. All qualified candidates please forward curriculum vitae to:

Stratagene Corporation
Attn: Human Resources
11099 N. Torrey Pines Road
La Jolla, CA 92037

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SCIENTIST

Scientist for national public-interest group to work on food safety issues. Related Ph.D. and advocacy experience preferred. Salary range: $33,000 to $40,000. Non-smoking environment. Salary history, writing samples to: J. Douglas, CSPI, 1875 Connecticut Avenue, N.W., #300, Washington, DC 20009.

SENIOR RESEARCH CHEMIST/RESEARCH CHEMIST

Princeton University’s Department of Chemistry welcomes applications to develop and lead a research program in global and regional environmental impacts of industrial chemicals and processes. Focus is on sources, accumulation, transport and effects of toxic materials, interactions with natural and anthropogenic climatic systems, and strategies for management. Research will be conducted in conjunction with the Center for Energy and Environmental Studies. Candidate must have a Ph.D. in chemistry or related field, an established track record of outstanding research in the areas of focus and demonstrated success in obtaining research funding. Salary and rank commensurate with experience and background. Please submit curriculum vitae and three letters of recommendation to:

Dr. Paul G. Como
Eugene Higgins Professor of Chemistry
P. O. Box 4054
Princeton, NJ 08544

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RESEARCH ASSOCIATE for university in central Ohio. Undertakes research in experimental high-energy particle physics; participates in experiments in Charm and Beauty production using a hybrid emulsion spectrometer system; develops dependable codes for extracting interesting physics from the data on detector hardware and software systems; develops and maintains data analysis and database systems for experimental projects; develops Monte Carlo simulations to determine detector parameters and consistency of results; liaises between U.S. and Japanese emulsion physicists; supervises graduate students; helps prepare papers for publication in research journals; two short trips monthly to national research laboratory in Chicago. No experience required in the duties described but applicants will qualify with the following: Ph.D. in physics and 2 years of research experience in high-energy physics with detector hardware, data acquisition, data analysis and computer simulation. Forty hours per week, 8 a.m. to 5 p.m., Monday through Friday. Salary: $33,000 per year. Must have proof of legal authority to work permanently in the United States. Send resumes in duplicate (no calls) to: G. Maugans, JO#13630398, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

REGULATORY AFFAIRS PROFESSIONAL

Participate in intensive studies pertaining to food, drug and device laws, submissions to regulatory agencies, clinical trials, review of labeling and advertising requirements, and FDA audit/inspections; participate in corporate inspection teams, serving as liaison with personnel of the Food and Drug Administration when they visit company facilities; participate in regulatory audits of manufacturing and research and development facilities, with emphasis on new product development; participate in the submission of applications to the Food and Drug Administration or similar foreign governmental agencies for approval of new medical products. Applicants should possess Ph.D. degree in biomedical engineering. Graduate-level coursework must include at least one course in each of the following subjects: (1) physiology; (2) biomedical computing; (3) digital controls. Ph.D.-level research must include mathematical modeling or computer simulation of the neural control of the cardiovascular system and the spectral analysis of heart rate variability.

30 hours per week; 9:00 a.m. to 5:00 p.m.; $45,000 per year. Must have proof of legal authority to work permanently in the United States.


COURSES AND TRAINING

TOXICOLOGY TRAINING at The University of Michigan. Pre- and postdoctoral traineeships in reproductive, developmental, endocrine, metabolic, genetic, immunologic, and carcinogenic toxicity research. Applicants must be U.S. citizens or permanent residents. Contact: Walter N. Piper, Ph.D., Professor and Director, Toxicology Training Program, Environmental Health Sciences and Industrial Health, School of Public Health, M6242A, The University of Michigan, Ann Arbor, MI 48109-2029. Telephone: 313-764-3140.

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This unique program offers the candidate with an earned doctorate in the sciences the opportunity to enter management in the toxicology area. The program is open to Ph.D. degree in two calendar years. Employment opportunities exist in private practice, industry, education and research. Contact: Dr. D. Hauser, A. J. Lax, Program, The New England College of Optometry, Room S, 424 Beacon Street, Boston, MA 02115.

ANNOUNCEMENTS

GRADUATE PROGRAM IN PHARMACOLOGY

The Department of Pharmacology at Wayne State University School of Medicine currently has 18 faculty members with interests covering all traditional areas of pharmacology, toxicology and cancer biology. Recent appointees have expertise in various areas of neuroscience, pharmacokinetics and molecular biology. The Ph.D. program offers broad-based training to individuals who want to pursue careers in academic, industrial, governmental or private companies. The primary research areas include biochemical and molecular pharmacology, cancer biology, cardiovascular pharmacology, drug metabolism and environmental toxicology, pharmacognosy and medical pharmacology. The program fosters innovative basic research in all of the above areas and individuals will receive competitive stipends and full tuition support. Applications from qualified minority and women are encouraged. For further information contact: Dr. N. Laurence, Graduate Admissions Director, Department of Pharmacology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201.

RESEARCH GRANTS

As part of its efforts to encourage the utilization of alternatives to traditional uses of laboratory animals, The Demeter Fund is soliciting research proposals for such methods. Funding up to $40,000 each is available to support individual projects at U.S. universities and research institutions will be given to proposals which focus on the production of nonocular antibodies through in vitro systems. Deadline for applications is 15 July 1992. For further information and application instructions contact (mail or FAX only): The Demeter Fund, Suite 204 Noble Plaza, 801 Old York Road, Jenkintown, PA 19046-1685. FAX: 215-887-2088.

GRADUATE PROGRAM IN CANCER BIOLOGY

The Meyer L. Prentiss Comprehensive Cancer Center of Detroit and Wayne State University have established a Graduate Program in Cancer Biology which includes more than 50 faculty from Wayne State University and the Michigan Cancer Foundation. The program offers a broad-based, multidisciplinary curriculum directed to the training of individuals who want to pursue careers in cancer research. The primary research areas include molecular oncology, carcinogenesis, developmental therapeutics, tumor metastasis, cancer immunology, and breast cancer. The program fosters innovative, interdisciplinary basic research in all of the above areas. Qualified individuals will receive competitive stipends and full tuition support. Research proposals are also available in the above areas with participating faculty. Minority and women are encouraged to apply. For further information contact: Dr. Paul F. Hollenberg, Director, Graduate Program in Cancer Biology, Department of Pharmacology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201.

Wayne State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

STAFF RESEARCH ASSOCIATE, STEP IV. Conduct studies on the mechanisms of "molecular mimicry" involving the role of mycobacterial heat shock proteins in the initiation of the autoimmune process. Must have a Ph.D. in immunology; 3 years in the job offered or 3 years of experience as a biomedical researcher in cellular immunology, experience with both animal and human tissue antibodies is preferred. Must be proficient in SDS-PAGE gels, Western blotting, culture of mycobacteria, limiting dilution analysis, and FACS staining; must have in vivo experimental experience; must have completed graduate-level coursework in parasitology, virology, chemical pathology, hematology, infectious disease epidemiology and treatment. Salary: $34,300 per year. Place of employment and interview: Los Angeles, California. Send ad with resume to: Job #CR4525, P.O. Box 9560, Sacramento, CA 95823-0560 no later than 25 January 1992.

MEETINGS

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